THE ARCHITECT & BUILDING NEWS

1 DECEMBER 1955 · VOL 208 · NO. 22 · ONE SHILLING WEEKLY

- **PIAZZA COFFEE BAR**
- **CONTRACTORS' PLANT AT THE BUILDING EXHIBITION**
- **CURRENT MEASURED RATES**

PUBLISHED IN LONDON SINCE 1854

BRADY SHUTTERS | **ROLLING DOORS** | **SHUTTER THE WORLD**

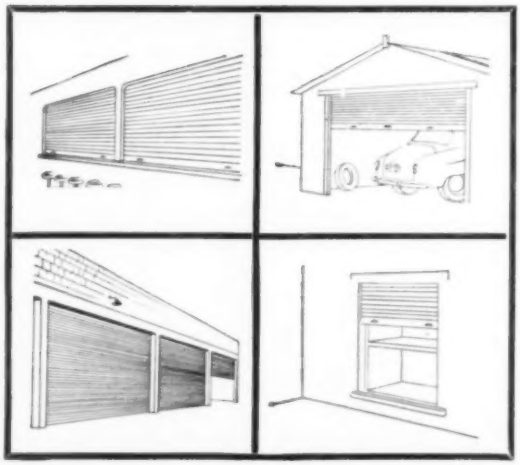
...on both land and sea

The "Princess of Vancouver", one of the most modern ferry boats in the World, recently built on the Clyde, has Brady electrically-operated Rolling Doors fitted, to the Car and Rail entrance for added safety, fast and easy operation and to save space.

These three qualities, plus greater strength, better appearance and absolute reliability, have made Brady products famous throughout the World—in factories, hotels, garages, bus depots, railway yards, vehicles, etc.

There is a Brady Rolling Door, hand or electrically operated, suitable for the project you are engaged upon. Full details, and free descriptive literature—write to the addresses below.

The doors commanding the world's largest sale.



G. BRADY & COMPANY LIMITED MANCHESTER 4

Telephone COLlyhurst 2797/8. *London:* New Islington Works, Park Royal N.W.10 *Birmingham:* Rectory Park Road, Sheldon 26. *Canada:* David C. Orrock & Co. (G. Brady & Co. Canada Ltd.) 1405 Bishop Street, Montreal 25, Que. and also at 23 Scott Street, Toronto 1. *U.S.A.:* G. Brady & Co. Ltd., 11 West 42nd St. New York 18 N.Y. *Norway:* An Thorbjörnsen, Kongensgate, 14, Oslo and also at Cape Town.

we shutter the world

MANUFACTURERS OF BRADY HAND AND POWER OPERATED LIFTS

S. & B.

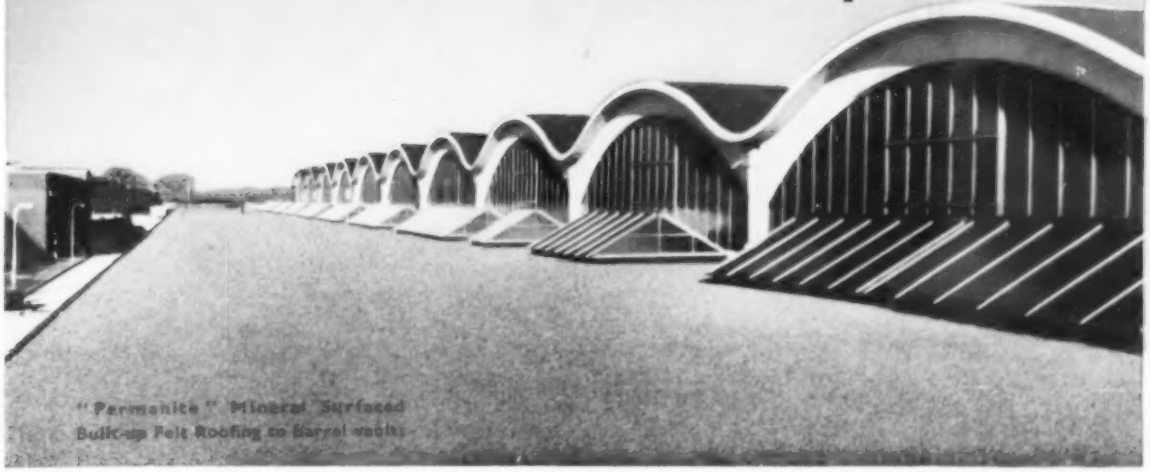
Built-up felt roofing under expert control

during manufacture

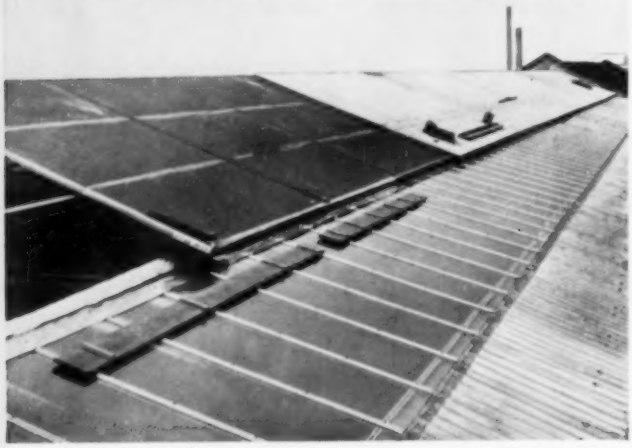
during application

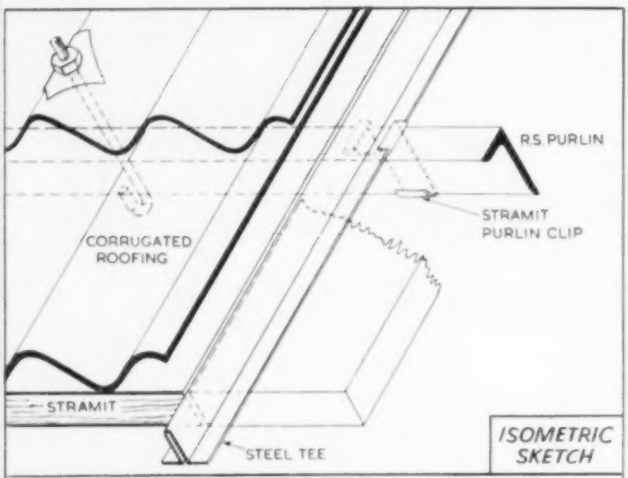
means a perfect job by ... **PERMANITE LTD**

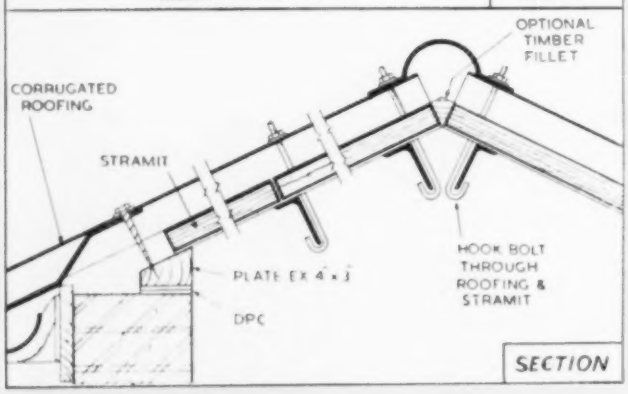
LONDON · BIRMINGHAM · MANCHESTER



Ruston & Hornsby's new Turbine shop
(designed and constructed by the Chief Works Engineer's Dept.)







STRAMIT
2" BUILDING SLABS
AND
U

—the measure of heat-loss through a construction, in B.Th.U.'s. per hour over one square foot of its area, when the temperature-difference between its two sides is 1°F.

Gone are the bad old days when consideration of the U-factor was the monopoly of theorists. Nowadays, every architect and building owner is very much alive to the vital importance of reducing fuel consumption by keeping heat-losses down to a minimum.

The " U " Value of Corrugated Asbestos Sheeting on normally spaced Steel Purlins is 1.40. When Stramit is added to the underside of the asbestos, as shown, this " U " value is improved to 0.22—a reduction in heat-loss of over 84 per cent.

A simple calculation will show how much fuel this would save per annum in that new building you are planning and how much smaller your heating plant can be. In many cases the reduced size of the heating plant more than offsets the cost of the Stramit insulation.

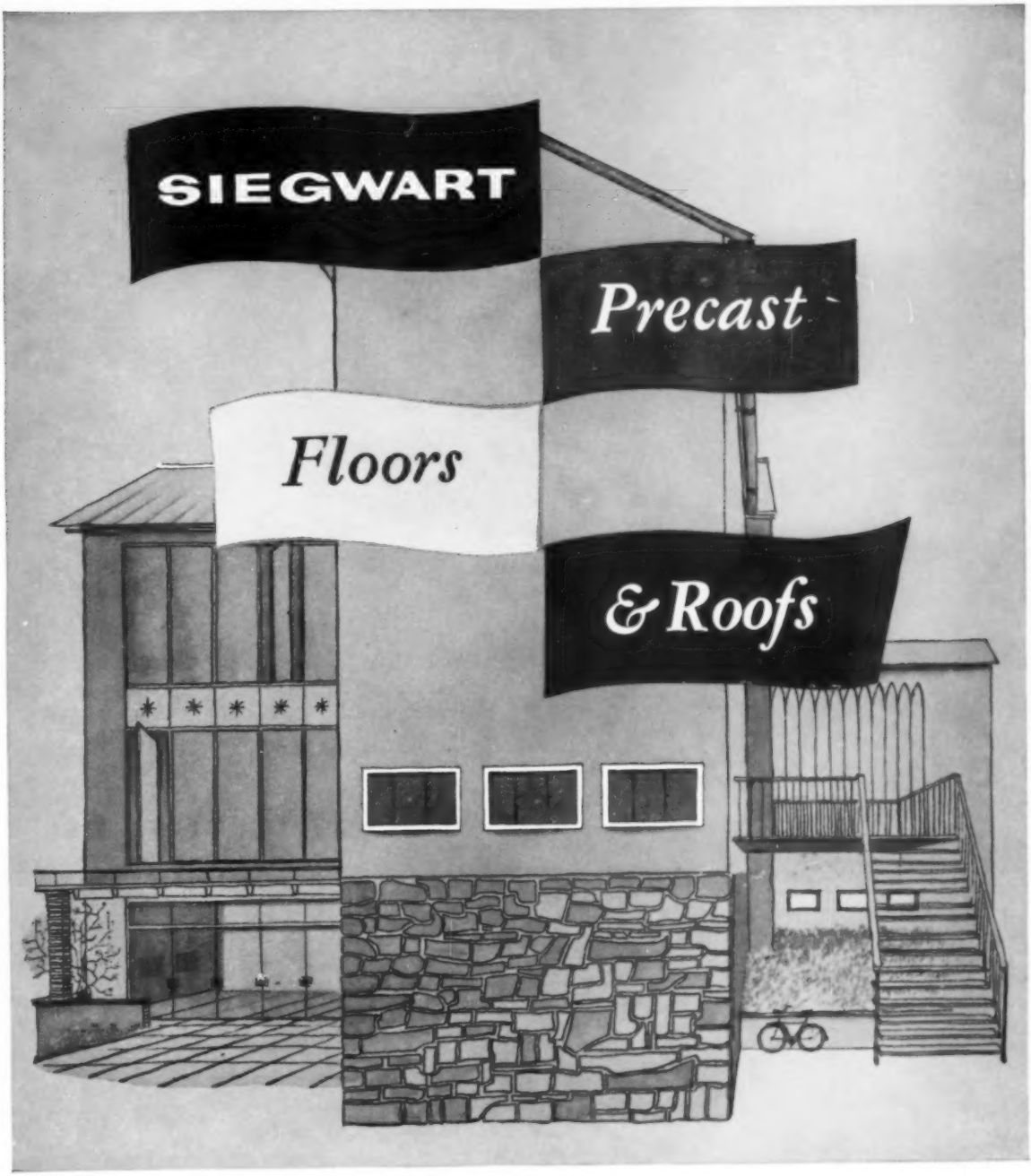
No other building slab possesses ALL these properties

As well as being invaluable for reducing heat losses, Stramit confers all the benefits of a low-cost dry construction. ★ It is pre-cut to size to save time on site and to avoid cutting to waste. ★ It has light weight combined with great strength and rigidity. ★ On flat roofs no screeding is required. ★ It has a good fire-resistance classification and a high degree of sound absorption.

2 in. Thick; 4 ft. Wide; any length (Stock lengths :— 8, 9, 10 & 12 ft.) Available from stock through leading merchants.

Send NOW for your copy of our fully detailed TECHNICAL FOLDER (ABN 955) and Building Research Station Reports

STRAMIT BOARDS LTD · PACKET BOAT DOCK · COWLEY PEACHEY · UXBRIDGE · MIDDLESEX · WEST DRAYTON 3021



SIEGWART FLOOR COMPANY LIMITED

GABLE HOUSE, 40 HIGH STREET, RICKMANSWORTH, HERTFORDSHIRE · RICKMANSWORTH 2268

AND AT LEICESTER, BIRMINGHAM, MANCHESTER AND GLASGOW

WOOD... nature's best building material

CANADIAN

Pacific Coast

HEMLOCK

has wide range of uses

Pale greyish yellow in colour with faint reddish tone in places. The grain is uniform and fine in texture.

Some of its special ADVANTAGES

- straight even grain with small light knots
- freedom from pitch and resin
- takes paint and varnish extremely well
- has exceptional glueing qualities
- rich in appearance, does not darken with age
- lightness in weight
- strength and resiliency
- little tendency to splinter
- edge grain wears evenly

Some TYPICAL USES

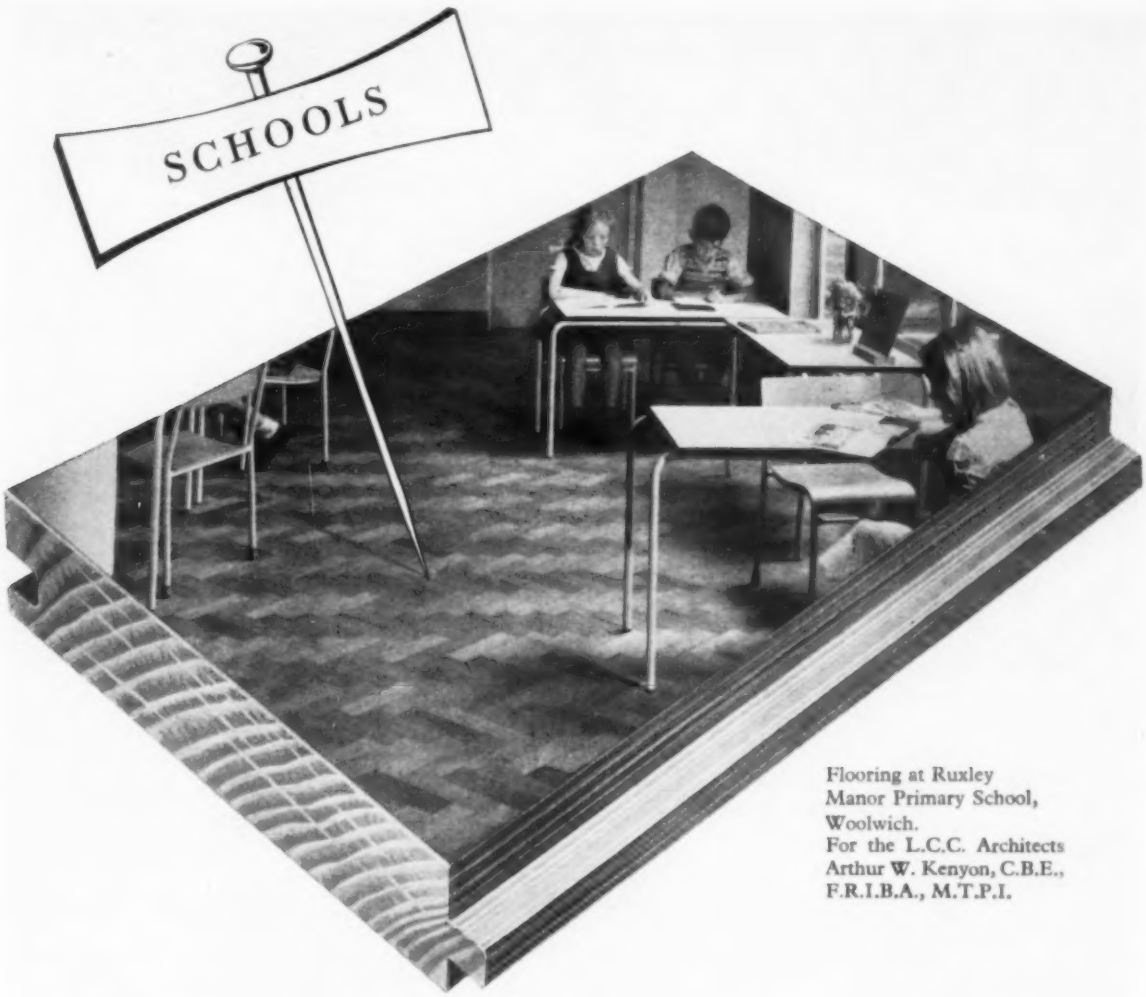
- general construction
- doors and millwork
- cabinets and cupboards
- shelves
- studding
- enamelled furniture
- interior and exterior finishes
- tanks
- railway sleepers
- ladder stock
- shiplap
- gymnasium floors
- ballroom floors

FOR FURTHER INFORMATION concerning Canadian woods contact The Commercial Secretary (Timber), Canada House, Trafalgar Sq., London, S.W.1.

Reproduced here is figure of Pacific Coast Hemlock

This advertisement is one of a series featuring Canadian Douglas Fir, Spruce, White Pine, Red Pine and Western Red Cedar.

TIM 1



Flooring at Ruxley
Manor Primary School,
Woolwich.
For the L.C.C. Architects
Arthur W. Kenyon, C.B.E.,
F.R.I.B.A., M.T.P.I.

They chose WOOD floors

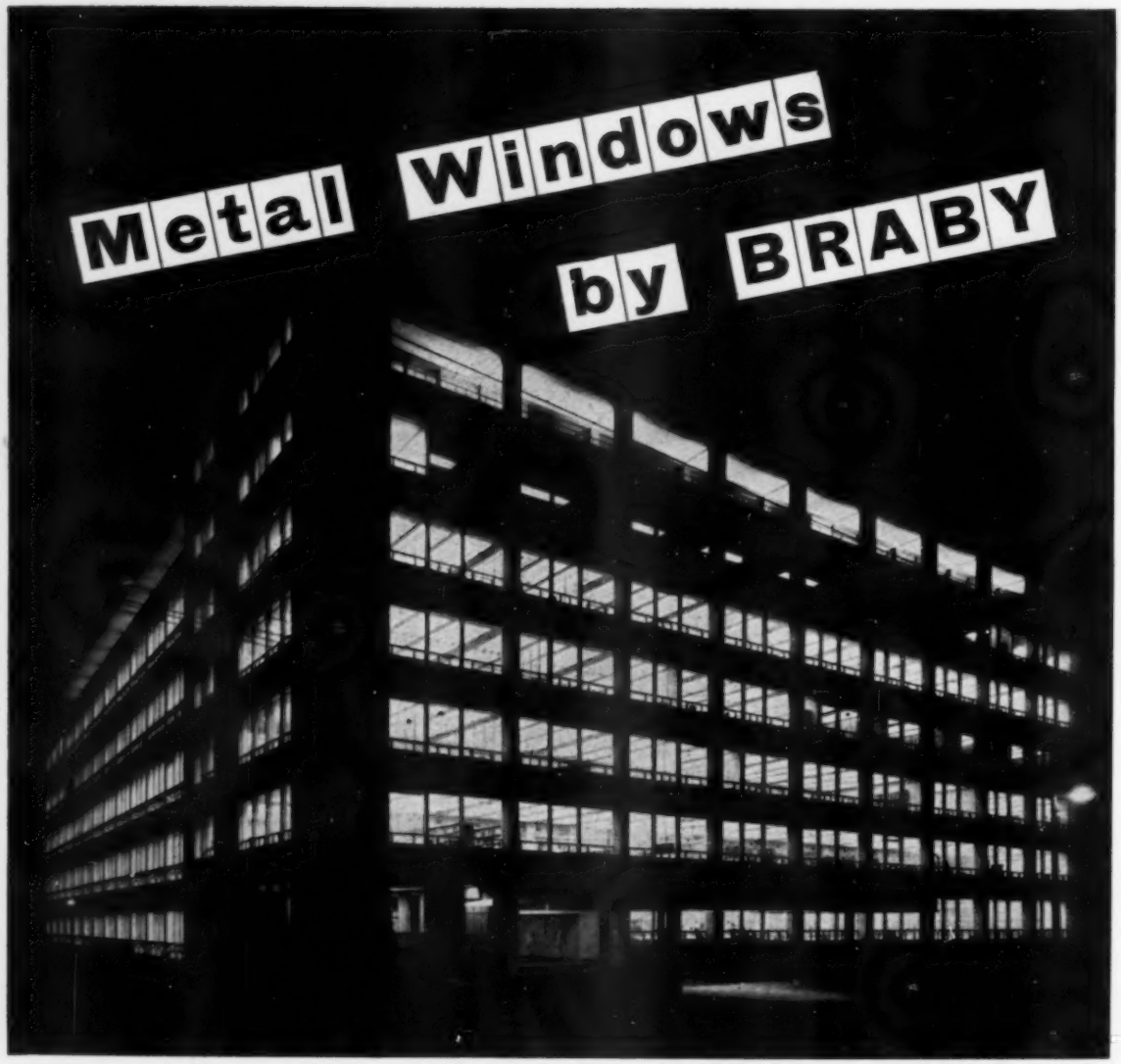
- ★ A good hardwood floor stands up to a lifetime of hard wear.
- ★ It is quiet, warm and comfortable underfoot.
- ★ It is a pleasure to look at.
- ★ It can be cheaply and easily maintained in perfect condition.

There's nothing like WOOD

ISSUED BY THE TIMBER DEVELOPMENT ASSOCIATION LIMITED, 21 COLLEGE HILL, LONDON, E.C.4, AND BRANCHES THROUGHOUT THE COUNTRY IN CONJUNCTION WITH THE HARDWOOD FLOORING MANUFACTURERS' ASSOCIATION

7041

B



Photograph by courtesy of The General Electric Co. Ltd.

Aluminium

windows by Braby were supplied and fixed at the Research and Design Building of Messrs. C. A. Parsons and Co. Ltd., Newcastle-upon-Tyne. Braby Aluminium Alloy 'Bar-Form' Partitions were also supplied and fixed throughout this 7 floor high building.

ONE OF THE WIDE RANGE OF
BRABY
PRODUCTS

FREDERICK BRABY & COMPANY LIMITED
ECLIPSE WORKS, PETERSHILL ROAD, GLASGOW, N. TELEPHONE: SPRINGBURN 5151
OTHER FACTORIES AT: London Works, Thames Road, Crayford, Kent. TELEPHONE: Bexleyheath 7777
Havelock Works, Aintree, Liverpool, 10. TELEPHONE: Aintree 1721
Ashton Gate Works, Bristol, 3. TELEPHONE: Bristol 64041. And Falkirk
OTHER OFFICES: 352-364 Euston Road, London, N.W.1 (Head Office). TELEPHONE: EUSton 3456
110 Cannon Street, London, E.C.4 (Export). TELEPHONE: MANsion House 6034
Queen's Buildings, 10 Royal Avenue, Belfast. TELEPHONE: 26509
Palace Street, Plymouth. TELEPHONE: 62261

Member of The Metal Window Association

AP 225—130

OUR LATEST PUBLICATIONS WILL KEEP YOU—

The best range BAR NONE
for better, quicker, lower cost plumbing

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An informative guide to the use of CONEX Fittings and Polythene Tube for Cold Water Services.

"UNDERNEATH THE BASINS" FOLDER W.8.
Details of the CONEX range of Drawn Copper Traps and lightweight Waste Fittings, specially designed to facilitate quick and economical fabrication of complete Waste systems.

VALVE BROCHURE C.V.4.H.
8-Page brochure on the complete CONEX-TERNA range of Brass and Gunmetal Valves—for use on water, steam, air, gas and oil services.

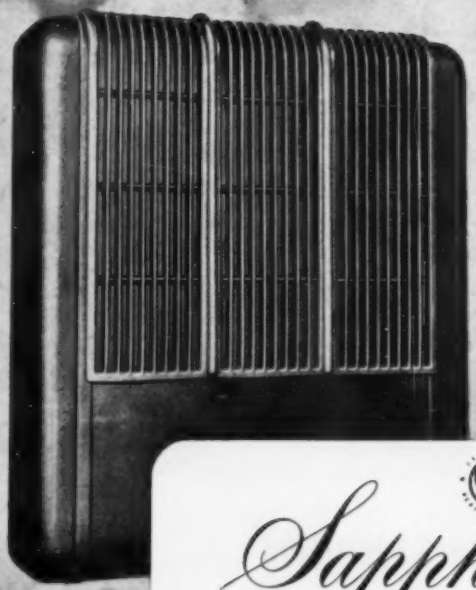
CONEX CATALOGUE No. C.J.4.H.
56-Page Catalogue and Price List of the complete range of CONEX products—essential information for all Architects, Builders, Plumbers, Builders' Hardware Merchants, etc.

COMPRESSION
CONEX
JOINTS

Write NOW for your FREE copies

CONEX-TERNA LTD., WHITEHALL ROAD, GREAT BRIDGE, STAFFS. **Phone: Tipton 1162-3 'Grams: Conex-Terna, Tipton**

THE SPACE HEATER OF TOMORROW . . .



The Sapphire '20' Balanced Flue Gas Space Heater is the result of British scientific research and development in the field of gas utilization.
Here is the complete answer to modern requirements of maximum efficiency; warm, fresh air, free from products of combustion, *plus* the highest possible safety factor.

Sapphire "20"
Registered Trade Mark Fully Patented

Full data upon request to Sole Licensees:—

COWPER PENFOLD & COMPANY LIMITED
Sole Distributors
WILLIAM SUGG & COMPANY LIMITED
VINCENT WORKS, REGENCY STREET, LONDON, S.W.1 Telephone VICtoria 3211

FROM THE SNOWCEM FILE:-

Hammerton Hotel
Kirk Hammerton, Near York

Owners: Bentleys Yorkshire Breweries Ltd., Woodlesford, Leeds.

Architects: Saml. Jackson & Son, Bradford
Painters: R. E. Priestley & Son, Pontefract

The bright facade of this fine hotel is an invitation to enter. The welcoming freshness of its external appearance suggests a comfortable, well-kept interior.

The cream Snowcem applied to the cement rendering of its walls is both decorative and weather protecting.

SNOWCEM is easily applied to concrete, cement rendering or suitable brickwork by brush or spray. Available in seven colours: White, Cream, Mid Cream, Buff, Pink, Silver Grey and Pale Green.

SNOWCEM WATERPROOF CEMENT PAINT

Decoration PLUS protection at Low Cost

A BLUE CIRCLE PRODUCT CMC

* BRITISH CEMENT IS THE CHEAPEST IN THE WORLD

This water... does not brush, peel or flake off...

THE CEMENT MARKETING COMPANY LIMITED
Portland House, Tothill Street, London, S.W.1
or G. & T. EARLE LTD., HULL
THE SOUTH WALES PORTLAND CEMENT & LIME CO. LTD.
Penarth, Glam.

T.3459

PLIMBERITE BUILDING BOARD

SIZE: 8 ft. x 4 ft. **THICKNESSES: ½ in. and ¾ in.**

PARTITIONING AND WALL LINING

Partitions can be single-skin or double-skin; in either case the boards are pinned to posts at about 4 ft. centres, and no other battening is required. For wall lining, construction is similar, using ¼ in. board over stud framework at 4 ft. centres. Insulation is similar to that of timber.

THE PLIMBERITE REBOND PARTITIONING SYSTEM

This system has been designed to provide a demountable double-skin partition of great rigidity and high insulation value. Rebated-edge ¾ in. PLIMBERITE boards are slotted into grooved timber posts which are held in position by PLIMBERITE REBOND screw jacks. Full details and working drawings are contained in the PLIMBERITE REBOND Booklet, obtainable on request.

FLOORING

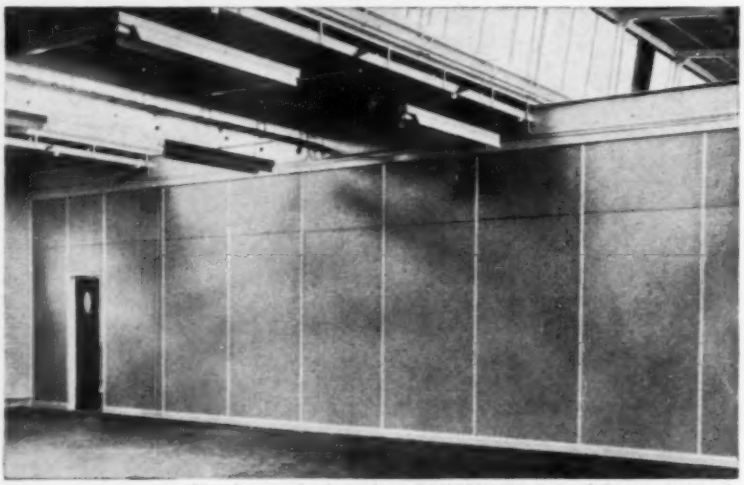
For an easily laid, hard-wearing floor, full size ¾ in. PLIMBERITE boards may be nailed over joists at 16 in. centres, or boards of either thickness laid over a solid sub-floor. Plugs or fillets should be let into concrete, and the boards screwed down at 24 in. centres; waterproof felt should be laid between the screed and the boards to prevent rising damp.

ROOFING

Boards of either thickness may be nailed to joists or rafters, and should be covered with felt and asphalt or other waterproof covering. Care should be taken to protect the boards from the rain before the outer covering is laid.

PLIMBERITE IN GENERAL JOINERY

In either thickness, the boards have many uses where large areas have to be covered without jointing. Cupboard doors, wide shelving, table tops and work benches are among the many applications. PLIMBERITE is also an excellent core for plastic sheet and wood veneers.



The photograph above shews PLIMBERITE Rebond Partitioning in the British Van Heusen Company's factory at Bishops Lydeard, Taunton. Architect: Steer & Shirley-Smith A.I.A.R.I.B.A. Contractor: Stansell & Sons (Taunton) Ltd.

DECORATION AND TREATMENT

In general, the surface should be primed, using wood primer, before decorating with distemper, emulsion paint, or oil paint. If it is desired to fill the surface, this should be done after priming. Oil and spirit stains can also be used, as well as many other special preparations designed for treating wood.

PLIMBERITE is sold only through Timber and Builders' Merchants. The name of your nearest main distributor, also samples and technical literature will be supplied on request.

BRITISH PLIMBER LIMITED

19, Albert Embankment, London, S.E.11

Telephone: RELiance 4242

PLIMBERITE BUILDING BOARD

Don't just say felt...

Specify

BLACK SHEATHING FELT

There's a great difference between ordinary roofing felt and Black Sheathing Felt. A difference that is very important to the architect and builder. You can prove this for yourself by feeling the texture of B.S.F.—the tough fibres, evenly saturated with pitch, that become wedded so perfectly with hot asphalte. Split open a piece of B.S.F. and see how the open texture assures maximum insulation. In both cases, you will see the perfect penetration of the pitch with every fibre of the selected jute and felt used.

An experienced craftsman says this about B.S.F.: "*If the underlay is Black Sheathing Felt you've got a proved thermal insulator very much better than any other. Architects who specify Black Sheathing Felt do us a good turn!*"

Make sure the Underlay is
BLACK SHEATHING FELT
UNDER THE ASPHALTE
BLACK SHEATHING FELT
All rolls bear this sign. It is the architects' and asphalters' assurance of top quality underfelt. Accept no substitute for Black Sheathing Felt.

- PLEASANT TO HANDLE
- DOES NOT FRACTURE
- DOES NOT ABSORB MOISTURE
- DOES NOT SHRINK

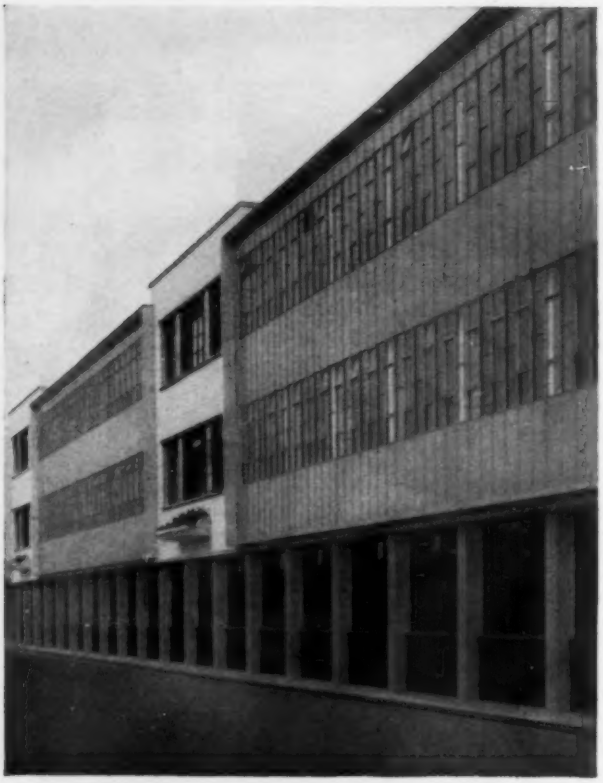
BLACK SHEATHING FELT

Specify and use it as the underlay for Mastic Asphalte Roofs and Floors

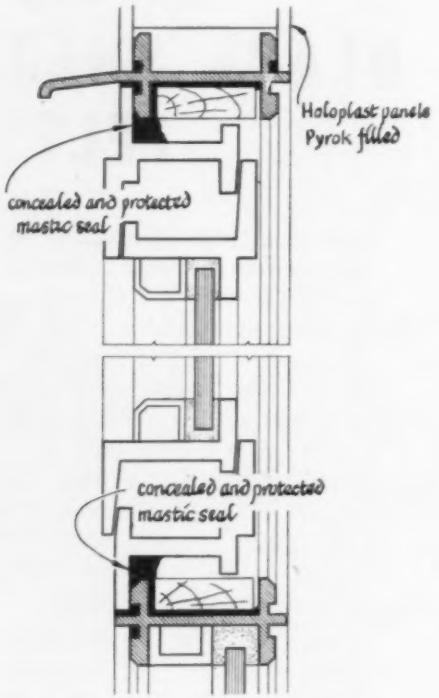
Manufactured by

John Rogers Ltd., Belfast; D. Anderson & Son Ltd., Manchester; Engert & Rolfe Ltd., London; John Erskine Ltd., Belfast; Robt. McCalmont & Sons Ltd., Belfast; F. McNeill & Co. Ltd., London; Permanite Ltd., London.

BSP/10



Experimental and Design Office Block
De Havilland Aircraft Co. Ltd., Hatfield, Herts.
ARCHITECTS: *Messrs James M. Monro & Son, B.Sc., A.R.I.B.A.*



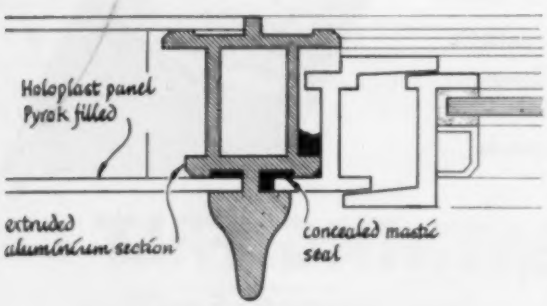
Typical vertical section showing use of specially designed aluminium sections

In the cladding of framed buildings

SECOMASTIC

REGD.

provides lasting protection at the joints



Typical sectional plan

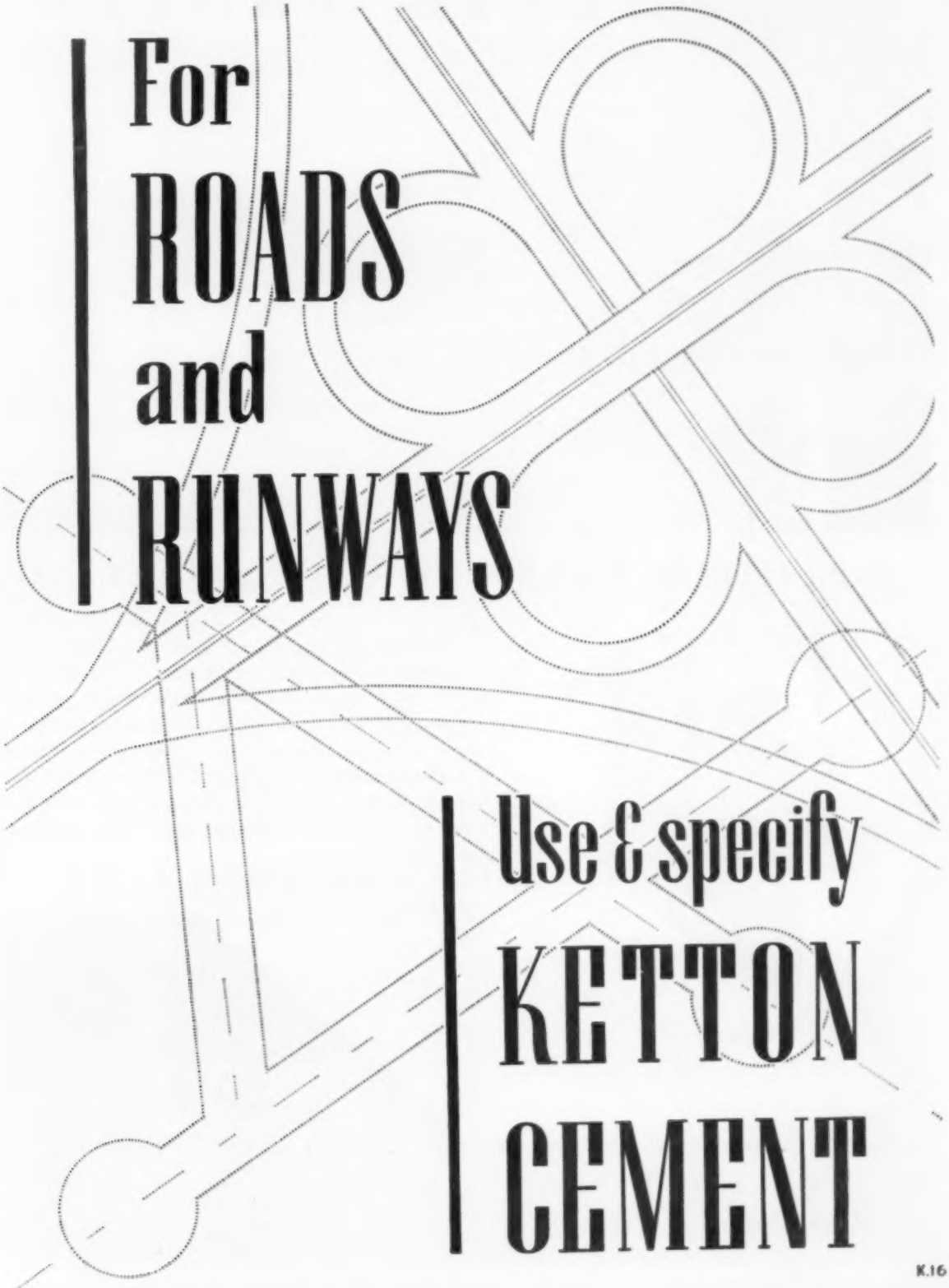
An important problem common to all techniques for cladding framed buildings is that of providing an effective and lasting waterproof barrier at the joints.

Correctly used, a non-hardening mastic can make a valuable contribution to the solution of this problem. But since the maintenance free life of the joints will be determined by the life of the mastic, the greatest care should be taken in using the correct grade applicable to the type of joint.

The Technical Department of SECOMASTIC Limited has studied the special problems connected with the sealing of joints in Wall Cladding and is in a position not only to advise on the particular grade of mastic best suited to a specific case, but also, where applicable, to collaborate in the design and detailing of suitable joints.

Please address all enquiries to Building Dept.

SECOMASTIC LIMITED · BRACKNELL · BERKSHIRE · *Telephone: BRACKNELL 910 (5 lines)*

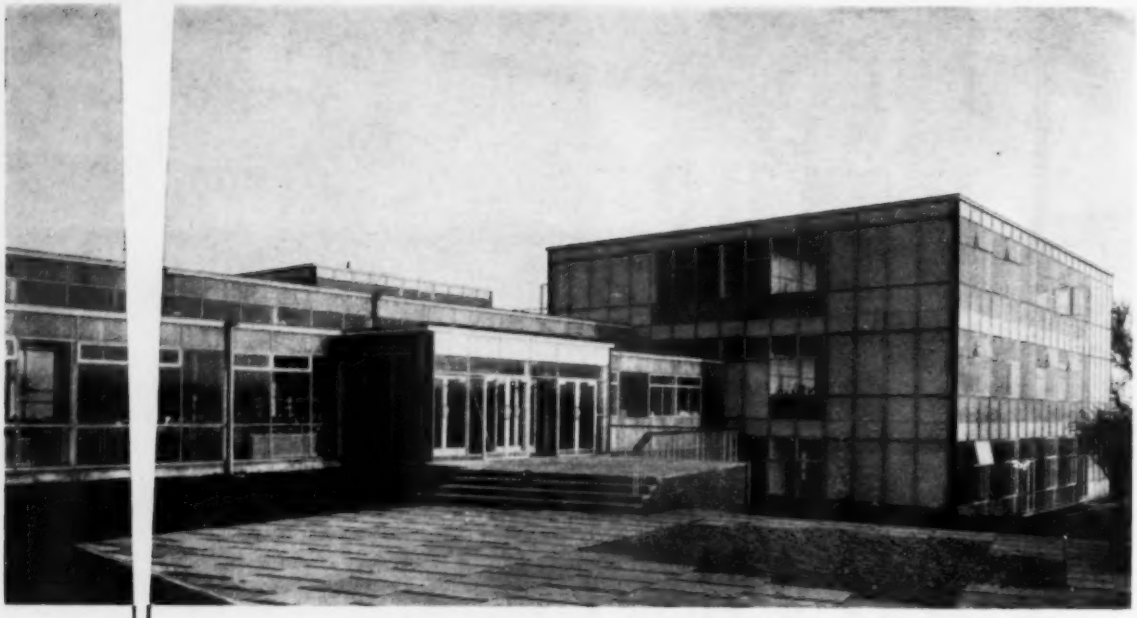


For ROADS and RUNWAYS

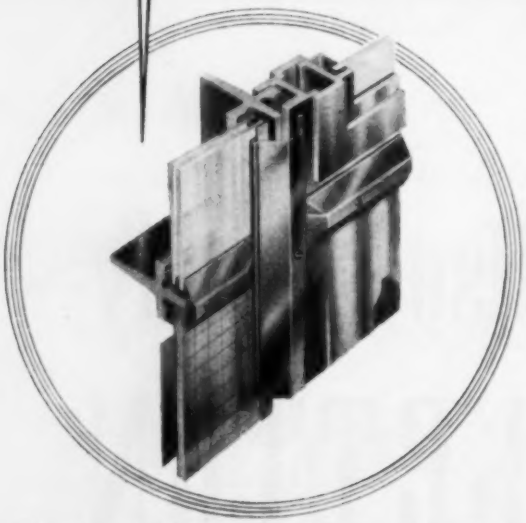
Use & specify KETTON CEMENT

K.16

'HILSULATE' PANELS



for HILLS GLASS CURTAIN WALLING



(Illustrated at top). Hurlfield Secondary Modern School for Girls, Sheffield. Architects Co-Partnership in collaboration with J. L. Womersley, A.R.I.B.A., A.M.T.P.I., City Architect.

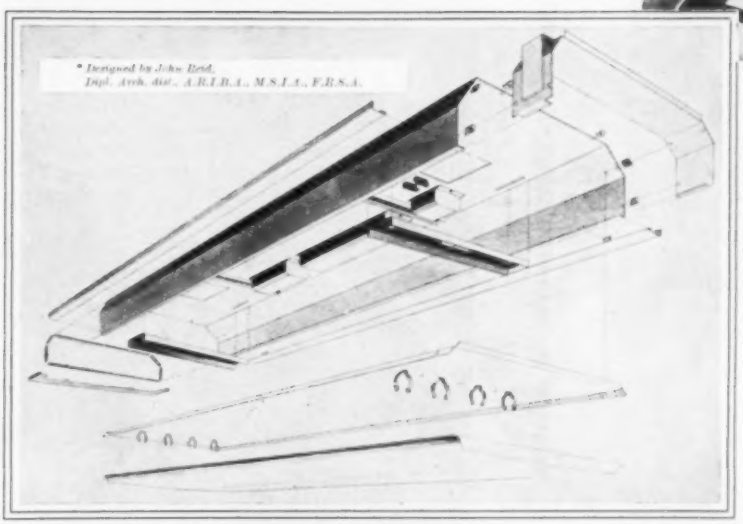
(Right). The Wingham District High School, Toronto. Architects: Messrs. Kyles & Kyles.

THE result of many years' practical experience, Hills system of Glass Curtain Walling is being extensively adopted in this country and in Canada. An attractive, permanent, cladding, most economical and speedily erected, it is particularly suitable for multi-storey constructions with large mass areas. Various types of infil panels are available, all offering high thermal resistance. These comprise 'Hilsulate' Double Glazed Panels (having the thermal value of 4½in. brickwork), 'Hilsulate' Coloured Panels for solid wall areas, Aluminium faced Ply Coloured Panels for opaque areas and Single Glass Panels for lighting areas. Illustrated literature on 'Hilsulate' Panels is available to Architects on request.

HILLS (WEST BROMWICH) LIMITED

ALBION ROAD, WEST BROMWICH, Staffs. Tel.: West Bromwich 1811 (15 lines). London: CHAPONE PLACE, DEAN STREET, W.1. Tel.: GERrard 0526-9
Branches at Birmingham (Midland 5175), Manchester (Blackfriars 3382), Bristol (24765), Leeds (25868), Newcastle-on-Tyne (59081), Glasgow (City 5564) and Belfast (26112)

New built-in lighting fittings —on standard 2ft. Module



The fitting is designed for two or four ATLAS fluorescent tubes, and is available with the following light diffusing equipment which can be easily removed for cleaning and re-lamping.

Louverex Plastic Louvre
"Perspex" diffusing disk
Lumenated Ceiling

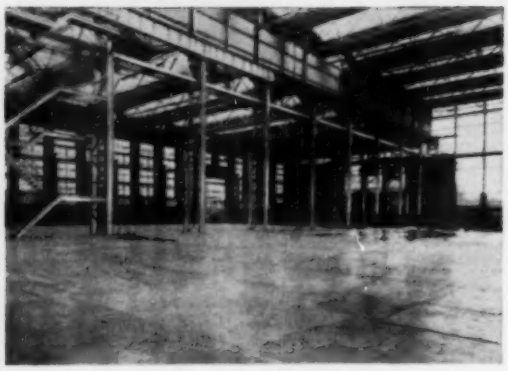
ATLAS MODULITE TROFFER FITTINGS

ARE DESIGNED FOR COMPLETE INTEGRATION IN ACOUSTIC CEILINGS

The new *"Modulite" range of ATLAS fittings is the result of a thorough investigation into modern building techniques, and the growing popularity of Acoustic ceilings of various types on a 2 ft. module. The principle of this range is to provide "built-in" lighting which can be fixed anywhere in place of standard ceiling panels, either individual troffer fittings of 2 ft. x 2 ft., 2 ft. x 4 ft. or 2 ft. x 6 ft. dimensions, or to form continuous luminous areas of light, or finally be arranged in less rigid patterns of ceiling illumination. An outstanding characteristic of the fitting is the provision for adjustment both in height and laterally, sufficient to ensure a completely satisfactory fixing even when wiring and suspension gear have been installed before the Acoustic ceiling. This provision will facilitate erection and save many hours of work.

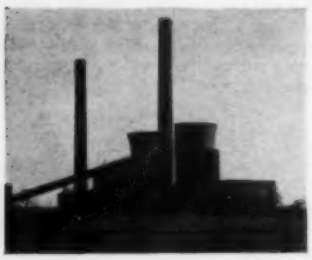
. . . for Architects — by ATLAS

ATLAS LIGHTING DIVISION, THORN ELECTRICAL INDUSTRIES LTD.
233 SHAFTESBURY AVENUE, LONDON W.C.2.



Use our experience if you have a foundation problem

FRANKIPILE



THE FRANKI COMPRESSED PILE CO. LTD. · 39 VICTORIA ST LONDON SW1 · CABLES · FRANKIPILE SOWEST LONDON

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"Yes sir, I have the Lift Specifications here... I think Pickerings, don't you?"

PICKERINGS LIFTS

ESTABLISHED 1854

PICKERINGS LIMITED · STOCKTON-ON-TEES

London Office: 116 Victoria St., S.W.1. Tel. Victoria 9860.

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E 54

A PERMANENT PROTECTIVE COAT!

R.I.W. 110A Damp Resisting Paint forms a tenacious, impenetrable damp-proof coating on structural steel to be encased in concrete or other masonry. This protection is permanent.

Prevents Corrosion and Staining

R.I.W. 110A is also widely used on interior steelwork in factories and laboratories to protect it from severe corroding agencies. It is an ideal coating for conduits and pipes buried in the ground, and for metal lath to prevent corrosion of the metal and staining of the plaster.

Easily Applied — Perfect Adhesion

R.I.W. 110A is easily applied by brush and can be sprayed The paint adheres perfectly and does not affect the encasing material.

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The R.I.W. range includes constructional damp-proofing, protective and decorative materials for the protection and preservation of all types of surfaces against a wide variety of destructive agencies. These products have been specified by architects and engineers for many years and are protecting numerous famous buildings in Gt. Britain.

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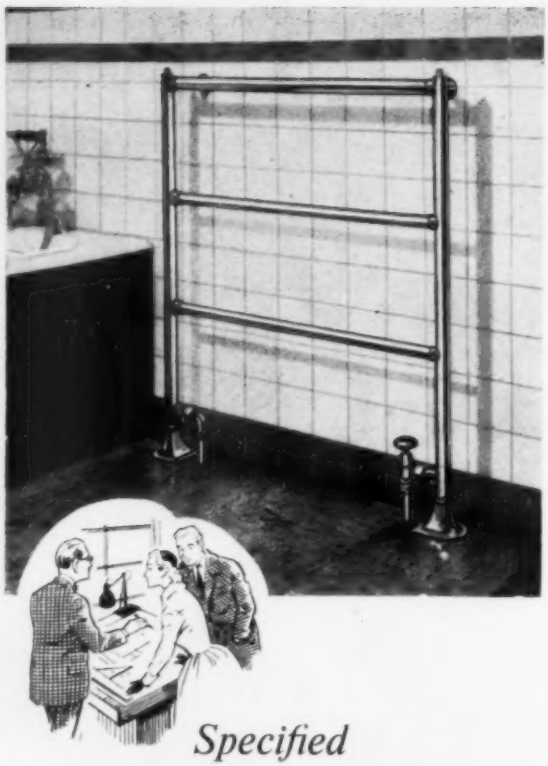

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Northamptonshire County Architect: A. N. Harris, Esq., F.R.I.B.A.

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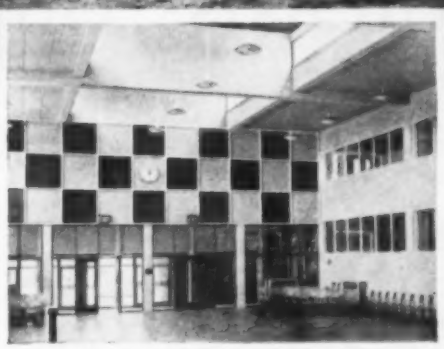

This picture shows the Assembly Hall looking towards the main entrance to the School.

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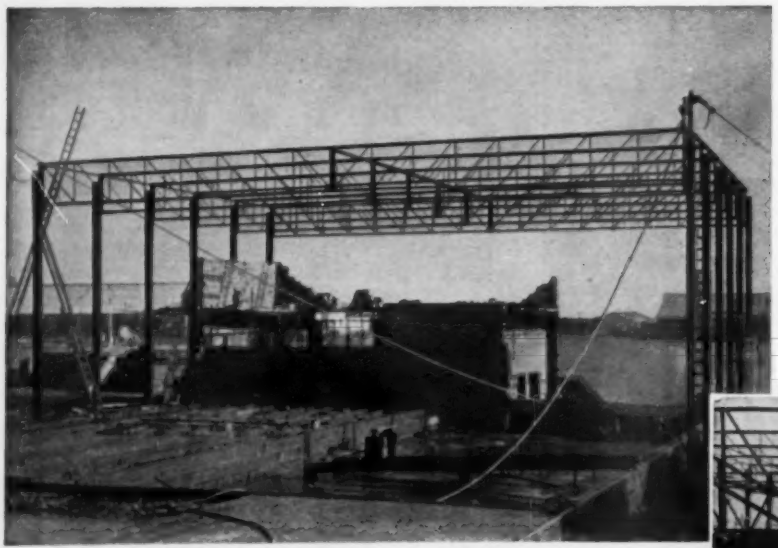

52ft. lattice girders at a Portsmouth factory. Architects: Thomas Jolly & Grant. Contractors: John Hunt Ltd.

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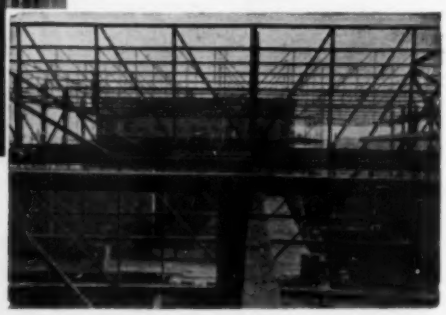

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Vol. 208 No. 22

THE ARCHITECT & BUILDING NEWS

1 December 1955

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PLANT AND EQUIPMENT IN BUILDING

UNTIL recent years builders' plant has not been the immediate concern of architects. Even today, a census of visitors to the Building Exhibition would probably show that very few architects—or even engineers—include building plant exhibitors in their tour of the exhibition. Whether this implies that designers give little thought to the actual methods by which their buildings will be erected is a matter for surmise. One thing is certain; the designer, structural and aesthetic, can no longer afford to ignore the influence which mechanical plant and specialised equipment, such as the tower crane or concrete formwork, must have on his designs if maximum economy and efficiency in building are to be achieved.

Most builders today are ready and eager to acquire and adapt to their own uses the numerous mechanical aids which research and development by manufacturers now makes possible, provided that the use of their aids can be justified by saving in time and labour.

To the uninitiated it may appear that the builder has no problem. The plant is there in great variety for him to take his pick to suit his needs.

Whatever the contractor's scope, be he interested in mammoth civil engineering works or a small concrete mixer which will pass through a standard domestic door opening, there is now plant to cover most of his requirements. But the builder is not a designer. He is the meat in a sandwich; the bread and butter is to either side. On the one hand the designer of the plant and equipment and on the other the designers of the building and structure.

Too frequently even now and despite the efforts of plant manufacturers to provide maximum flexibility, the builder may find, and often does, that few buildings are ideally suited to the use of any particular plant or equipment without modification of the building design and specification, or without some contriving on his, the builder's, part to make the standard equipment suit the job as nearly as possible.

In theory there is an ideal combination of building design, contractor programme and plant design which would achieve maximum efficiency.

In practice this state of affairs rarely exists. It would be absurd to suggest that buildings be entirely designed to suit the methods of erection. This is the old argument in different guise that buildings should be designed around their services. Yet the principle holds good that, where something is fixed by the demands of efficiency and economics, other factors should, whenever possible and without detriment to aesthetics be made to conform.

The contractor may consider that a particular building would be most effectively and quickly built by the employment of a tower crane. The fully efficient use of such a crane may be reduced by some plan consideration which places a section of the building out of economic range of the crane's working radius at the required capacity. Modification of the plan, even slightly, might save large sums of money. Possibly reconsideration of structure and finish would enable precast or prefabricated units to be used without loss of aesthetic effect but which would ensure that the crane is kept fully occupied and *in situ* work involving man labour would be reduced. Again, it might be that a building designed with brick or block walls could be more economically constructed by designing in concrete using some of the numerous devices now available for batching, transporting and placing this material with maximum speed and minimum man power.

Clearly in present day conditions the aim of designers and builders must be to reduce the man power required on sites. In other times such reduction might have been achieved by depriving a man of employment. But that argument no longer holds good. The reverse is true. Such is the demand for labour that in order to merit the requirements of the building programme mechanisation must be increasingly employed.

EVENTS AND COMMENTS

U.N.I.C.E.F. CHRISTMAS CARDS

The enormous success of the United Nations Children's Fund Christmas Cards has in past years been due not only to the great appeal of the fund itself but also to the attractiveness of the sets of cards. This year is no exception. The United Nations card consisting of a blue and white globe surrounded by a wreath each leaf in the colours of a member nation is very attractive. The design was given to U.N.I.C.E.F. by Antonio Frasconi, a citizen of Uruguay. The other five cards are of children in different parts of the world and were designed and given to the fund by the French artist Edy Legrand. They are lithographed in bright colours and contain greetings in five languages. Previous years' designs are still available. The cards are boxed in tens, price 7s 6d, with envelopes and can be had in various combinations of design with or without the printed greetings.

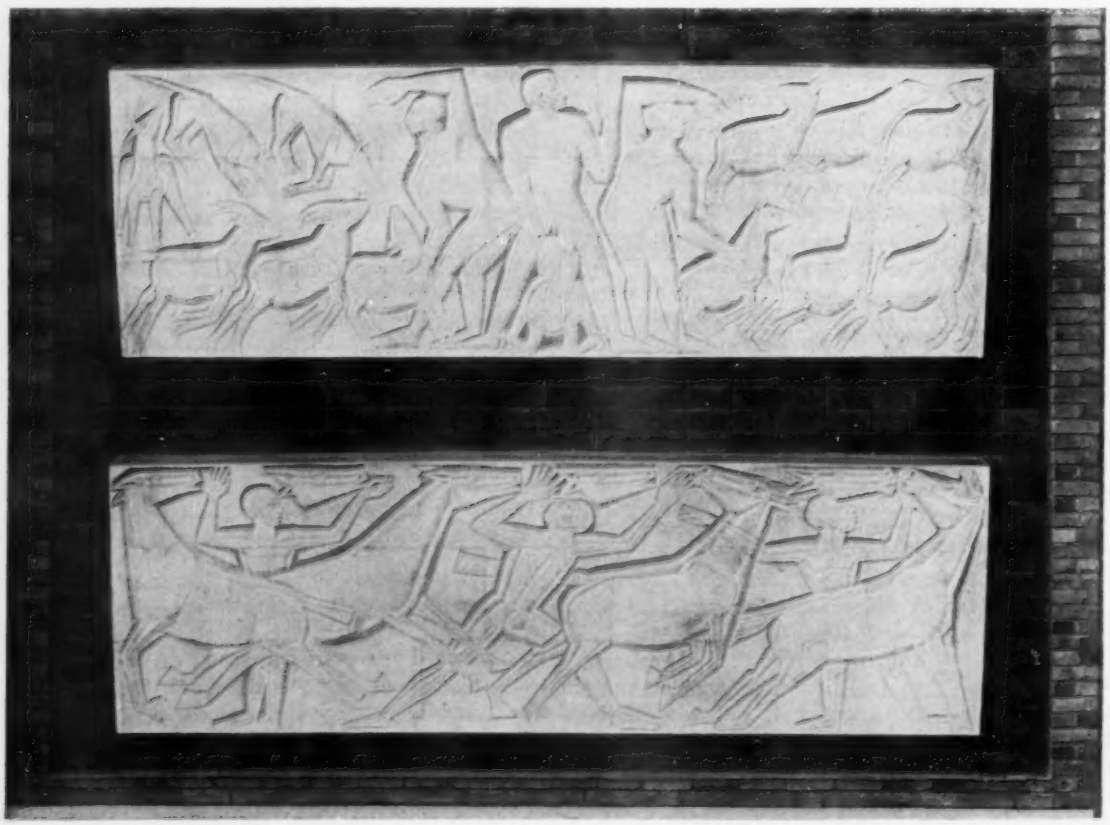
Last year 440,000 Unicef cards were sold in Great Britain. The fund hopes to sell a million cards this year. Good luck to them.

SOUTH EASTERN SOCIETY OF ARCHITECTS

The sixth annual dinner and dance of the Canterbury Chapter of the S.E.S.A. was held at Chez Laurie, near Herne Bay, last week. Mr. Hugh Wilson, Canterbury City Architect, was in the chair and the principal guests were the Mayor and Mayoress of Canterbury, Mr. Gontran Goulden, Deputy Director of the Building Centre, and Mr. P. H. P. Lovell, vice-president of the Southern Counties Area N.F.B.T.E., and Mrs. Lovell. The speeches were, I understand, few, short and witty, and used up very little valuable dancing time. There were over a hundred members and guests present representing all branches of the building industry in East Kent. My agent disguised as a slightly out of tune valve in the electronic organ was delighted to see so many pretty girls. This proved to him that all is well with architects in the Canterbury Chapter.

Chez Laurie as a building is worthy of comment. Built shortly before the war in a fairly bare landscape it resembles an early form of stub winged space ship, which having made a forced landing is ever on the alert for a possible take off and return whence it came.

A panel of sculpture by Professor A. H. Gerrard of the Slade School of Fine Arts was officially unveiled on 28th November by Dame Evelyn Sharp, D.B.E., Permanent Secretary to the Ministry of Housing and Local Government. Portland Stone was used by Professor Gerrard and the four sections of the panel are set in the wall surrounded by stoneware fire-licked bricks. Set in the wall over one of the principal town centre shops of Hemel Hempstead, this panel of sculpture will form a focal point halfway along Marlowes, the main street of the old town being re-developed. The photograph shows two of the sections.



NORTH KENT BREEZE

Dartford Technical College was opened recently by the Duchess of Kent. Mr. Garnham Wright of the Kent County Architect's Department, who designed the College, was presented to Her Royal Highness. Mr. Wright worked under the supervision of Mr. R. T. Green, deputy county architect, who for many years has been almost continuously employed on the major works of the education committee. Although my report does not mention it I imagine that Mr. Green was also presented.

At a subsequent meeting of the Kent County Council a member asked why Mr. Sidney Loweth, the former K.C.C. architect who retired last year, was not asked to the ceremony. The Chairman of the Education Committee, Alderman W. C. Redman, pointed out that Mr. Garnham Wright and not Mr. Loweth designed the college. He is also reported as saying that in view of Mr. Loweth's criticisms of the college and other activities of the K.C.C. in the county and national press "one would imagine that he would not wish to be associated with any future function of the K.C.C. . . ."

THE PERILS OF CIVILISATION

According to a medical report the washing up water in many restaurant sculleries is far from pure. This it seems to me is hardly surprising—one only has to glance at one's fellow diners to see how such a state of affairs can arise. Really hot water is the cure and plenty of it. Fortunately bacteria are extremely inefficient or we would all have died years ago.

Dirty washing up water, however, has no perils to compare with the latest threat to home and beauty. Some scientists who should have been working deep down a restaurant waste-pipe has discovered that if noise in our daily lives gets really bad our hair will catch fire. To guard against this we may have to have our heads shaved and that would be too bad for teddy boys. I am not unduly worried about this, however, as the noise required to bring about this interesting if alarming phenomenon is of the order of a large air raid siren at a distance of a few feet in an enclosed space.

A NEW FILM

It is a great pity that film making is so expensive.

When any commercial organisation is enlightened enough to make a film of its activities it nearly always falls into the trap of trying to say too much and cover too much ground in an effort to get its money's-worth. The new film "Heat in Harness" made for J. H. Kenyon and Co., the Rocksil, Meta-Mica and general insulation people, is no exception to this generalisation. It is a very good film, well put together and with a sensible and well spoken commentary. It is designed as a documentary and not specially as advertising. However, to my mind, in trying to mention all the ways in which heat can be conserved it misses the punch of a series of short films each dealing with one lesson. The army long ago learned how to make good instructional films and never tries to teach more than one lesson at a time. It may be argued that "Heat in Harness" teaches one lesson too, but the average person will find that the actual illustrations only touch him personally in one or two places.

The section devoted to building applications of insulation is well done but too short. The list of films on building has to contain too many general films in order to cover the whole industry. Specialist films directed at specialist audiences are badly needed. "Heat in Harness" is a good introduction but only an introduction to the insulation of buildings.

U.N.E.S.C.O. HEADQUARTERS AND OTHER FOUNDATIONS

By craning my neck in a crowded tube train the other day I was able to read a fellow passenger's Paris edition of the New York Herald Tribune. I read that the foundation stone of the U.N.E.S.C.O. H.Q. building was laid last week. Cramp prevented my gaining further information.

I heard the other day of a quantity surveyor who rushed from a newly constructed departmental store on reading a notice which said "Foundations, fourth floor."

MUNICIPAL OFFICES, DUBLIN

Vincent Kelley and Partners' huge scheme for new municipal offices for Dublin is being severely criticised, mainly on account of its siting on Wood Quay where it would take the place of the terraced gardens proposed in the Abercrombie plan and would also obscure the view of Christ Church Cathedral. I saw photographs of a model of the building when I was in Dublin recently and quite apart from its site I thought it was a heavy and unexciting block reminiscent of much that is going up in the City of London now. The Royal Institute of Architects of Ireland has made a formal objection to the City Manager because of the proposal to abandon the Abercrombie plan. It is suggested locally that the opposition to the plan is now so strong that the scheme may be abandoned.

NEWS FROM THE BUILDING CENTRES

I hear that the large extension being built for the Boucentrum, Rotterdam, will be ready before Christmas. The new building will enable various scattered offices connected with research and the publication of two periodicals to be housed under one roof. It will also provide accommodation for full scale building tests to be carried out. The total staff of the Boucentrum is now more than 150.

A group of architects, engineers and builders' merchants in Oslo is hoping to set up a building centre

there. Their main difficulty is the lack of suitable accommodation in central Oslo.

A building centre opened last year in Hamburg, another is projected in Stuttgart and I believe another in Darmstadt. In Cologne there is a government sponsored building information service but on exhibition.

The Building Centre is having its fourth Christmas exhibition of contemporary light fittings. This year the show will be smaller because of shortage of space. It will open next week. The exhibition, Aluminium in Building, is being retained for a further month.

ABNER

Correspondence

Oxford Traffic

Dear Sir,—May I correct the impression given in Mr. Plumstead's article on Oxford that Lord Nuffield had at least this much justification for ruining the City—that he was born at Cowley. In fact his Lordship was born at Worcester, so that his despoliation of Oxford was entirely gratuitous.

Yours faithfully,

GEORGE DUNRAVEN.

Preservation of Historic Buildings Exhibition

The Minister of Works, the Rt. Hon. Nigel Birch, O.B.E., M.P., is to open an exhibition at the Royal Institute of British Architects, 66 Portland Place, London, W.1., on December 9, 1955, illustrating the preservation of ancient monuments and historic buildings in the care of the Ministry of Works.

The main object of the exhibition is to make known to architects and students the special techniques evolved by the Ministry over the past 40 years in dealing with old buildings, but it should also be of interest to builders, and to the general public.

The exhibition will consist of 27 display panels, photographs, architectural drawings, and captions describing in some detail defects of stonework, brickwork, timber, ironwork and plaster and how they are treated—the emphasis throughout being on preservation of existing structures, as opposed to restoration: consolidating and making good, rather than rebuilding. In addition to the drawings and photographs, there will also be a number of physical exhibits—including a 17th century painted panel from Bolsover Castle which has been partially cleaned; a model of a grouting machine; and sections of brick flint and stone walling.

The exhibition will remain open (Mondays-Fridays 10 a.m.-7 p.m.; Saturdays 10 a.m.-5 p.m.) until December 22. Admission is free.

N.F.B.T.E. Presidential Nomination

Mr. Nigel Hannen, of London, has been nominated by the Council of the National Federation of Building Trades Employers to be President of the Federation for 1956.

Mr. Nigel Hannen is a director of the firm of Holland & Hannen and Cubitts Ltd. He is a grandson of Benjamin Hannen, senior, who was the first President of the London Master Builders' Association from 1872-7.

The Annual General Meeting of the National Federation will be held in London on January 25 next.

APPOINTMENT

The Minister of Housing and Local Government has appointed Lady Rhys-Williams as chairman of Cwmbran Development Corporation in succession to Mr. T. H. Huxley Turner, who has been chairman since the Corporation was set up in November, 1949. The Minister has reappointed the deputy chairman and the four members of the Corporation, with the addition of the Rev. Gordon Lang.

RETIREMENT

Mr. Sydney Gregson, F.R.I.B.A., F.R.S.A., has retired from the post of County Architect of Cornwall after seven years' service. He is now in private practice at: Keighley, Tregolls Road, Truro (Tel.: Truro 2726), where he will be pleased to receive trade literature.

ANNOUNCEMENT

Mr. John Godwin, A.R.I.B.A., is now practising with his wife, Miss Gillian Hopwood, A.R.I.B.A., under the style of Godwin and Hopwood, Chartered Architects. They have opened their offices at 8, Oil Mill Street, Lagos Nigeria, where they will be pleased to receive trade catalogues. All communications should be addressed to, Private Mail Bag, 2148, Lagos.

CHANGE OF ADDRESS

As from the 19th November the address of the Institute of Heating and Ventilating Engineers is 49 Cadogan Square, London, S.W.1. Tel.: Sloane 1601, 3158.

Mr. Denys Hinton, A.A.Dipl. (Hons.), A.R.I.B.A., has moved his office to 21, The Parade, Leamington Spa. Tel.: 1197.

CORRECTION

On page 660 of last week's issue, in the caption to the top picture, Crittall's stand designed by Neville Conder, is in fact John Thompson Beacon Window's stand designed by John Whitby, M.B.E.

COMING EVENTS

The Modular Society Ltd.

December 5 at 7.45 p.m. Open meeting of the Technical Committee, at which the recently published reports of the committee will be reviewed and discussed, and all technical aspects of the society's promotion of modular coordination will be open for debate. (Preceded by the Annual General Meeting.) At the Royal Society of Arts.

The Royal Institution of Chartered Surveyors

December 5 at 5.30 p.m. "The Law Relating to Compensation on the Compulsory Purchase of Land," by James G. Kekwick, Barrister-at-Law (Associate), at 12 Great George Street, S.W.1.

Royal Institute of British Architects

December 6 at 6 p.m. "Brompton, London's Art Quarter," H. S. Goodhart-Rendel, C.B.E., Mus.B. (Cantab.), M.A. (Oxon), F.R.I.B.A., at 66 Portland Place, W.1.

The Reinforced Concrete Association

December 7 at 6 p.m. Dudley P. Harris will present a paper on "Concreting Problems and Methods in Hot Climates," at 11 Upper Belgrave Street, S.W.1.

Royal Society of Arts

December 7 at 2.30 p.m. Alfred Bossom Lecture. "Planning Against Noise," by H. Bagenal, F.R.I.B.A. J. L. Martin, M.A., Ph.D., F.R.I.B.A., Architect to the L.C.C., in the chair. At John Adam Street, Adelphi, W.C.2.

Town Planning Institute

December 8 at 6 p.m. "Where does Planning Stand Today?", by Sir Patrick Abercrombie, M.A., D.Lit., F.R.I.B.A., F.I.L.A. (P.P.), at The Livingstone Hall, Broadway, S.W.1.

Report of the Architectural Education Joint Council

Decisions of the R.I.B.A. Council

The Council of the Royal Institute have completed their consideration of the outstanding sections of the Report of the Architectural Education Joint Committee, namely, Section 20, Conditions of Recognition of Part-time Courses, and Section 30, R.I.B.A. Examinations in Architectural Design, and have decided as follows: —

1. The Council have given approval in principle to the recognition for exemption from the R.I.B.A. Examinations of part-time courses (to be described in future as *composite* courses) provided they are set up and administered by Schools of Architecture holding full-time courses recognised for exemption from the R.I.B.A. Intermediate and Final Examinations. The Schools concerned will be expected to collaborate with the R.I.B.A. Allied Societies and architect-employers in their areas in ascertaining the demand for such composite courses, arranging for the release of students to attend School, and keeping the R.I.B.A. informed of the proposals. The R.I.B.A. Visiting Board, following normal procedure, will inspect and report upon composite courses for which recognition is sought.

2. The Council have rescinded their policy on the distribution of Recognised Schools as envisaged by the Report of the Special Commission on Architectural Education, approved in 1944. This will enable Schools of Architecture (including "Listed" Schools) to apply for recognition for exemption from the R.I.B.A. examinations for their full-time courses. The R.I.B.A. Visiting Board, following normal procedure, will inspect and report upon such courses for which recognition is sought.

3. The Council have given approval for full-time and part-time students, both in "Listed" Schools and Schools recognised from exemption from the R.I.B.A. Intermediate Examination, who wish to take the R.I.B.A. Intermediate or Final Examination, to be exempted from the submission of Testimonies of Study to the R.I.B.A. In future such students will submit to the authorities of the Schools concerned, for consideration by External Examiners specially appointed by the Schools, portfolios of School work covering the same ground as that required by the R.I.B.A. regulations for Intermediate and Final Examinations Testimonies of Study. The Schools will be inspected from time to time by the R.I.B.A. Visiting Board.

4. The Council, having taken the view that a test under examination-room conditions is the only satisfactory way of testing a candidate's capability in design, have decided to continue the existing Design Examinations. They have, however, asked the Board to draw up a scheme to make the test a more comprehensive one by reducing the number of Final Examination Testimonies of Study from four main and three subsidiary subjects to three main and two subsidiary subjects, the last of the three Testimonies of Study being expanded to include a design combined with working drawings, and possibly a report, to be awarded marks by the Testimonies of Study Examiners, the marks being placed to each candidate's credit in assessing the results of his examination in design. The Board have under consideration the implementation of this decision.

A.B.S. Competition for Old People's Homes

The Architects' Benevolent Society has announced details of an architectural competition for designs for 20 new dwellings for Old People and Wardens' Accommodation at East Horsley, Surrey. The Assessors are Mr. H. S. Goodhart-Rendel, O.B.E., F.R.I.B.A., Mr. Arthur W. Kenyon, C.B.E., F.R.I.B.A., M.T.P.I., and Mr. G. Grenfell Baines, A.R.I.B.A., A.M.T.P.I. The first premium is £100 and an additional £75 may be awarded at the discretion of the Assessors between not more than three competitors. The last day for submitting designs is April 6, 1956. The competition is open to all registered architects in Great Britain, Northern Ireland or the Republic of Ireland and to those who, being qualified for registration, have applied to A.R.C.U.K. Copies of the conditions of competition which can be obtained from the Secretary, the A.B.S., 66 Portland Place, W.1, will be available early in December.

It was in 1950 that the A.B.S. announced the creation of a fund to provide homes for its aged and incapacitated beneficiaries. The fund now stands at £19,600 which is considered enough to make a start, though a total of £46,000 is needed for the whole scheme. The A.B.S. intends to proceed with a section of the scheme consisting of six dwellings and a portion of the warden's accommodation. The site at East Horsley is pleasant, possesses fine trees and is secluded though close to shops, a church, post office and inn.

The A.B.S. hopes that the starting of the scheme will draw attention to the need for more money to build the remainder of the houses. It is very grateful to those architects and R.I.B.A. Allied Societies who have contributed donations as well as to the A.B.S. Ball Committee whose annual efforts have done so much for the fund, but they hope for renewed donations to ensure completion of this most worthy of causes.

Architecture Club Supper

A supper of the Architecture Club was held at Kettner's Restaurant, Soho, on Wednesday, November 16, under the chairmanship of the President, Viscount Esher, and was followed by a Debate on the proposition: "That new Buildings no longer express their Purpose". The debate was opened by Sir Howard Robertson, A.R.A., P.P.R.I.B.A., and Mr. Denys Lasdun, F.R.I.B.A., and was continued by Mr. Mark Hartland Thomas, Mr. Gontran Goulden, Mr. Darcy Braddell, Mr. Michael Waterhouse, Mr. Lionel Brett, Mr. G. A. Jellicoe, Mr. Desmond Heap, Mr. E. Maxwell Fry, Miss J. Adburgham, Sir Hugh Casson, Miss Jane Drew, and Mr. W. G. Fiske.

A.B.T. Resolution

The following resolution was passed unanimously by the General Council of the Association of Building Technicians meeting in London on Sunday, November 20, 1955. The Council consists of representatives from all parts of the United Kingdom.

"This General Council of the A.B.T. having considered the events connected with the recent international conference organized by the Association for Regional Planning and Development, unanimously resolves to add its protest to those already expressed by many bodies and individuals at the attempt by the Home and Foreign Offices to prevent the participation of professional civil servants both at home and abroad. The aims and purposes of this conference, directed as they were to discussions and mutual assistance on technical and professional matters of great importance for planning in all parts of the world which could only lead to the advantage of all concerned, could not possibly have been affected by the conjectural and purely private political ideas of any persons connected with its organization.

"The introduction of such irrelevant political considerations by certain organs of the Government and their entirely unjustified and uncalled for assumption of censorship in this direction places a new and entirely undemocratic restriction on the interchange of professional ideas which must be vigorously resisted at all levels."

A.B.T. Pocket Diary

The Building Technicians' Diary for 1956 is now available from the A.B.T., 1 Ashley Place, London, S.W.1. Post free 5s. 4d.

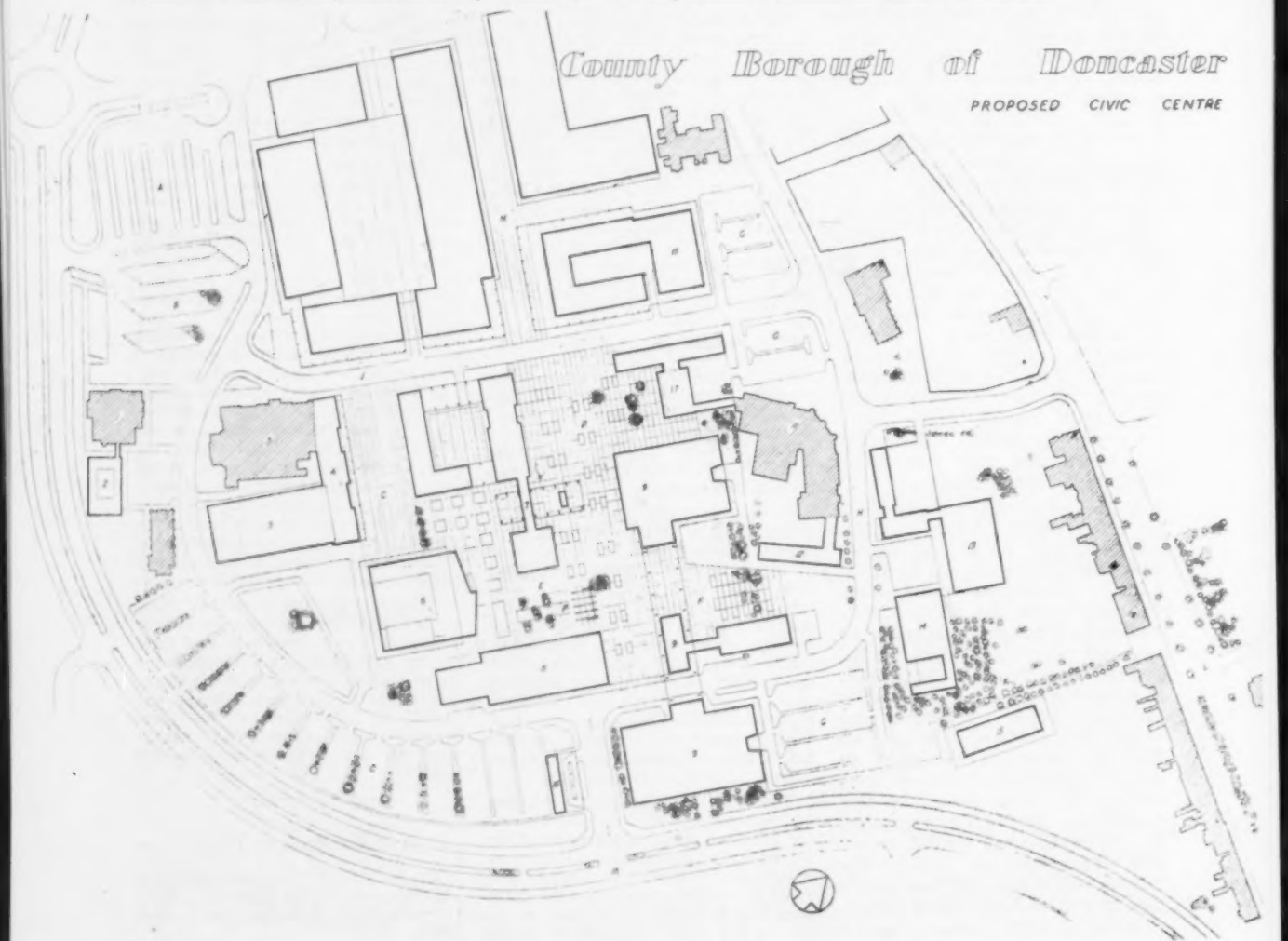
Proposed Civic Centre for Doncaster

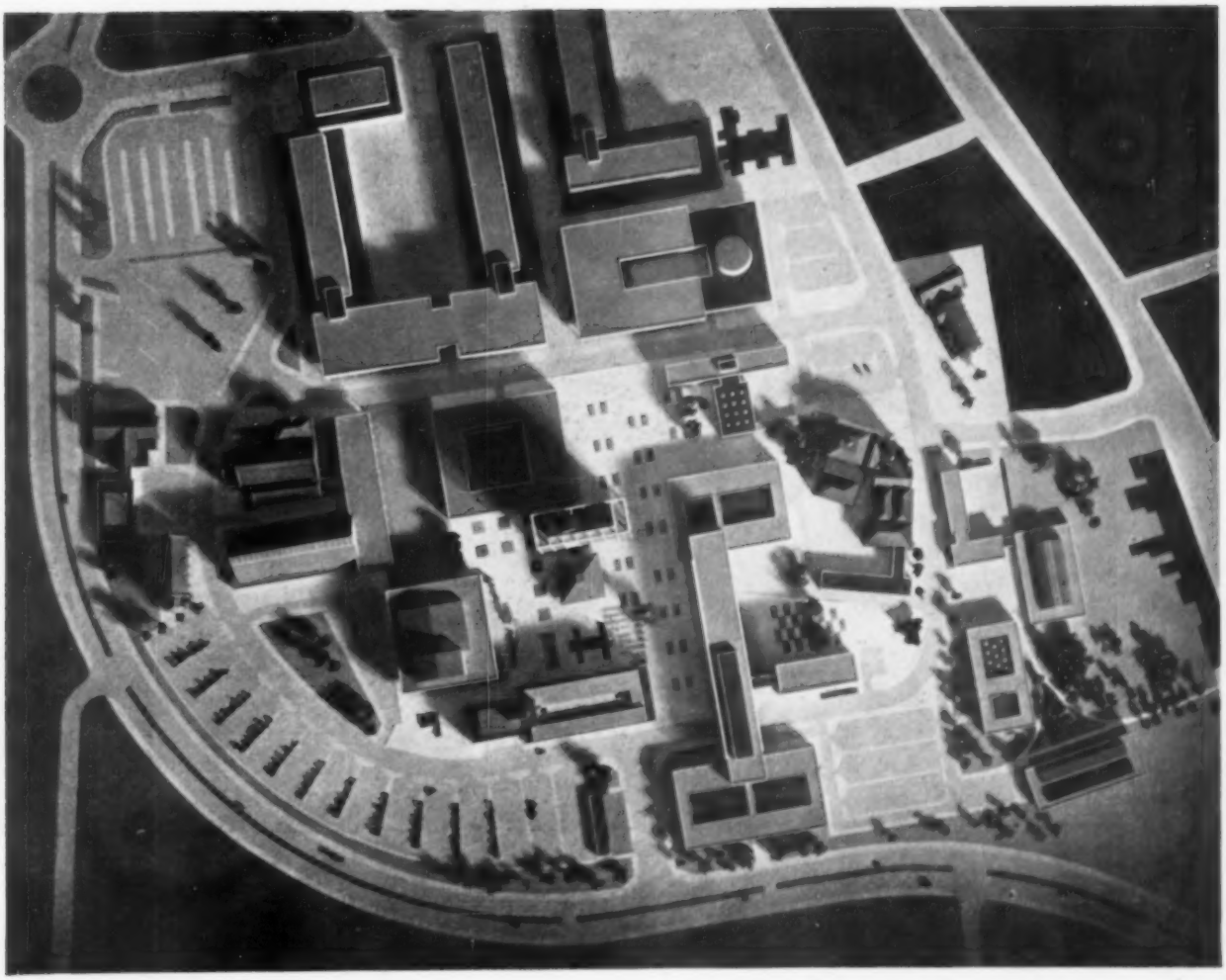
FREDERICK GIBBERD, C.B.E., F.R.I.B.A., M.T.P.I., Planning Consultant (Felix Darnell, A.R.I.B.A., A.M.T.P.I.,—Associate) in collaboration with Martin Cawley, B.Sc., A.M.I.C.E., Town Planning Officer, and L. J. Tucker, A.R.I.B.A., Borough Architect.

THE problem was to prepare a Master Plan for the new Civic Centre on the site defined by the development plan. The area is bounded by the proposed ring road on the South and West, by existing development along South Parade on the East, and Waterdale Road on the North. Fortunately, the core of the site now consists of Glasgow Paddocks and Beechfield Park which are largely open spaces and make this development possible. The design of the Civic Centre is based on the functional separation of pedestrian and vehicular traffic. Within the inner peripheral road the closes, squares and places will be exclusively used by pedestrians. The whole area being a pedestrian precinct from which vehicular traffic is excluded. The buildings are grouped together to look inwards on the inner squares which form series of inter-related open air rooms. There are extensive belts of car parking placed between the inner peripheral road and the ring road. To the North of the site is a proposed area for shopping which will link the Civic Centre with the existing main commercial centre of the Town. This design establishes the broad principles for future development and shows one way they can be implemented. The plan will be modified from time to time as the detail requirements and projects become known.

The Council approved the plan for the projected Civic Centre on Monday, 21 November, 1955.

KEY: A Bus Station. B Coach and Car Park. C Theatre Precinct. D North Civic Place. E South Civic Place. F Education Precinct G Car Parking. H Chequer Road. I Waterdale. K Pedestrian Link. L South Parade. M Inner Ring Road. N Pedestrian Way. P Sculpture Courts.
1 Existing County Court. 2 Ext. to Court. 3 St. James St. Baths. 4 New Bath Concourse. 5 New Bath. 6 Theatre. 7 Town Hall. 8 Art School. 9 Technical College. 10 Library. 11 Girls' High School. 12 Ext. to School. 13 Police Courts. 14 Health Centre and Clinic. 15 Future Development (Art Gallery Extension?). 16 Filling Station. 17 Government Offices. 18 The Hall.





A Coffee Bar in Marylebone High Street

"THE PIAZZA" *designed by Sylvia & John Reid*

THE "Piazza" occupies a long and narrow shop site. The walls were irregular in shape, and the plaster surface had been spoilt beyond repair by the use of textured paint. It was necessary, therefore, to resurface them throughout.

To avoid a "corridor" effect in the long narrow shape, we decided to create three distinct volumes. This was achieved by using three different ceilings, changing the decorations and the method of lighting used in the separate parts.

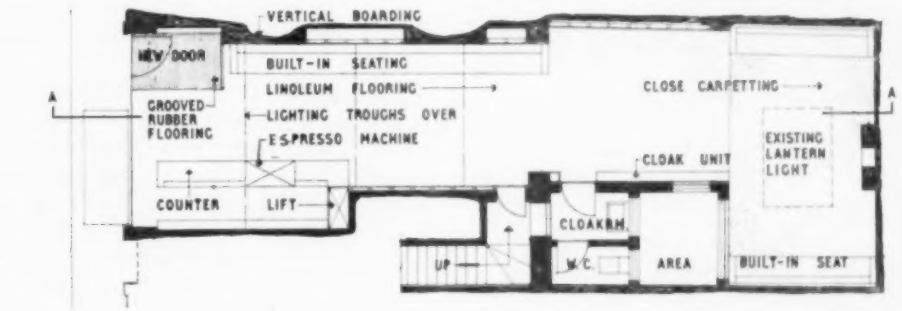
Front Area

Here we used a fibrous plaster serpentine shaped ceiling, painted white. It is lit by fluorescent tubes concealed in black, vee-shaped beams, which span from side to side.

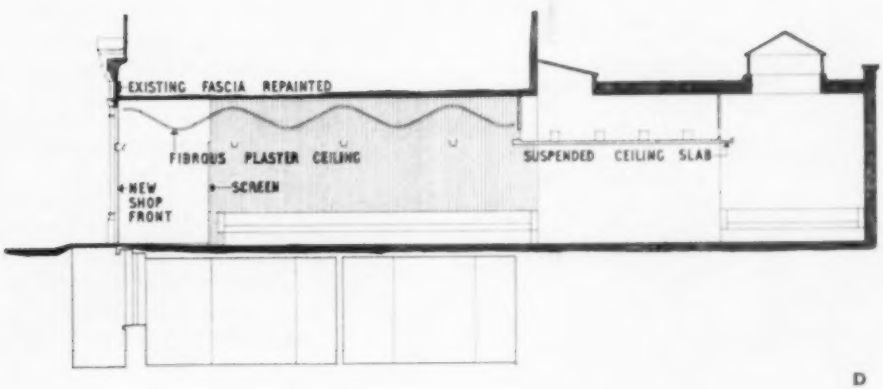
Both walls in this part are covered with vertical square-jointed Western Red Cedar boarding, natural french-polished. One side has built-in bench seating, and Forrest Modern diabolo wall brackets above it add "sparkle" to the lighting scheme. There is a decorated glass draught screen at the door end of the seating.

The floor is sheet linoleum laid on screed. The background colour is grey marble and lines are inlaid in black and in white. Triangles of tangerine, blue and yellow lino are placed at various intersections. The abstract pattern emphasises width without defining length. The grey marble does not show marks easily and the small areas of bright colour give it life and movement. At the walls the lino is turned up to form a cove, to give a pleasant finish and assist cleaning.

The Service Bar has a light-coloured Italian marble front framed in black french-polished hardwood. The top is matt black formica and carries the familiar "Gaggia" Espresso machine and English and Italian drink mixing equipment. The marble is inclined back and brightly lit by fluorescent lamps concealed behind the facia of the counter front. This gives a point of interest where, because of the relatively large area involved, there was a danger of dullness. In addition,



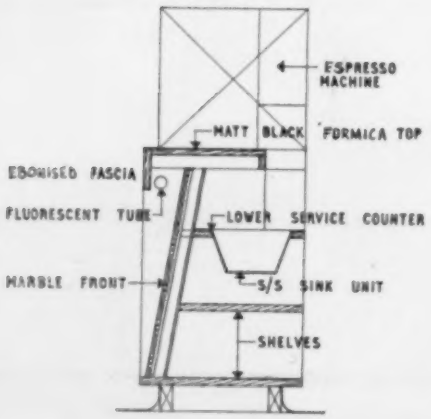
PLAN
SCALE: 1in = 12ft



SECTION A.A.

D

The Service bar which has a light coloured marble front framed in black, french polished hard wood. The top is matt black Formica. Behind the bar, a photographic mural.



BAR SECTION SCALE $\frac{1}{2}$ IN = 1 FT

Coffee Bar, Marylebone High St

the brightness of the front causes the counter-top to look like a floating slab and this helps to diminish the apparent weight of the rather bulky equipment it supports.

The wall behind the bar is completely covered with a photographic mural. It is an aerial view of an Italian Piazza (the Piazza Bodoni, Turin) and the surrounding area. The aerial perspective of the photograph forms a very exciting background to the bar.

The general colour scheme of this part is generally black and white, with natural materials. A comparatively small amount of bright colour, used as contrast, gives life to the scheme.

The Centre Area

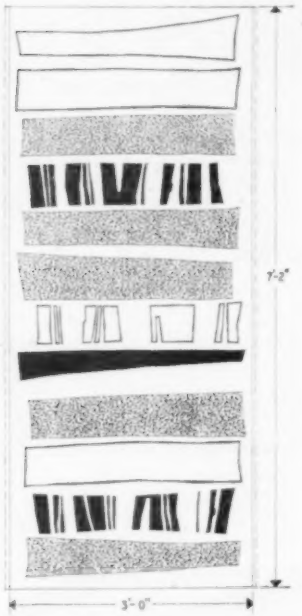
This area, with a flat lowered ceiling painted black, separates the front and rear portions of the restaurant. The lighting here is direct and comes from horizontally louvred spotlamp fittings built-in to the ceiling. One wall is flush and painted dark green; the opposite wall is divided into foot-wide vertical strips in varying colours. Each strip carries a hat-and-coat hook, and provides a wall decoration scheme suitable for hanging coats on, which looks attractive when empty and yet is not spoilt with a varied assortment of coats and hats on it.

The change in lighting and decoration is dramatic and creates a feeling of separation. Square tables have been used here, in contrast to circular used elsewhere. The lino floor is continued from the front area. The main heating and ventilating equipment is installed above this ceiling, and has an independent air supply from the adjacent area.

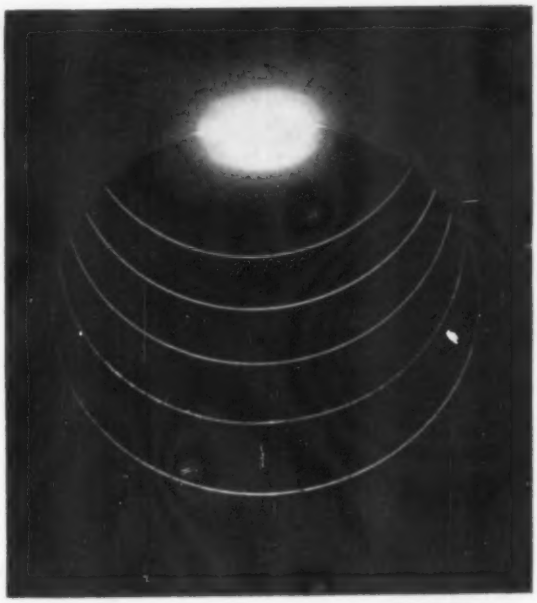
The Rear Area

This area is wider than the rest of the interior. The plain high ceiling is lit by fluorescent lamps concealed in a shelf along the side wall which is in fact a continuation of the lowered ceiling. The apparent width has been increased by using two photographic murals on the short walls. These are two views of streets in Siena chosen so that their perspective appears to extend the perspective of the room itself. This has also had the desired effect of changing the axis of this space so that it is at right angles to the rest of the building. The long end wall which connects these murals has been stripped of plaster and the rough exposed brickwork painted white. The brickwork is in sympathy with the brickwork in the photographs and this makes the space appear much larger than it actually is. Forrest Modern wall brackets on this wall serve the double function of

Continued on p. 711

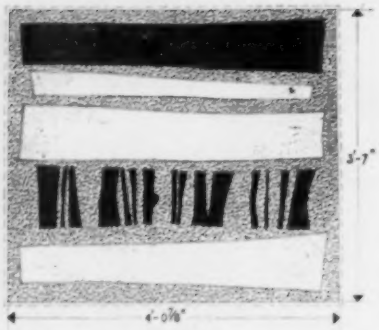


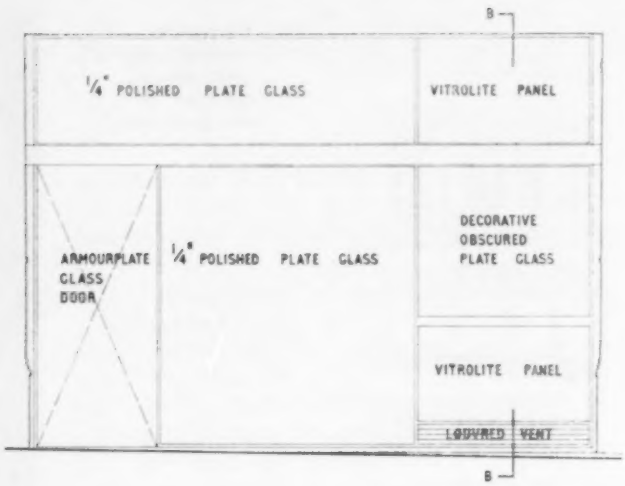
Decorative obscured plate glass panels designed by the Architects.



Built-in Light Fitting.

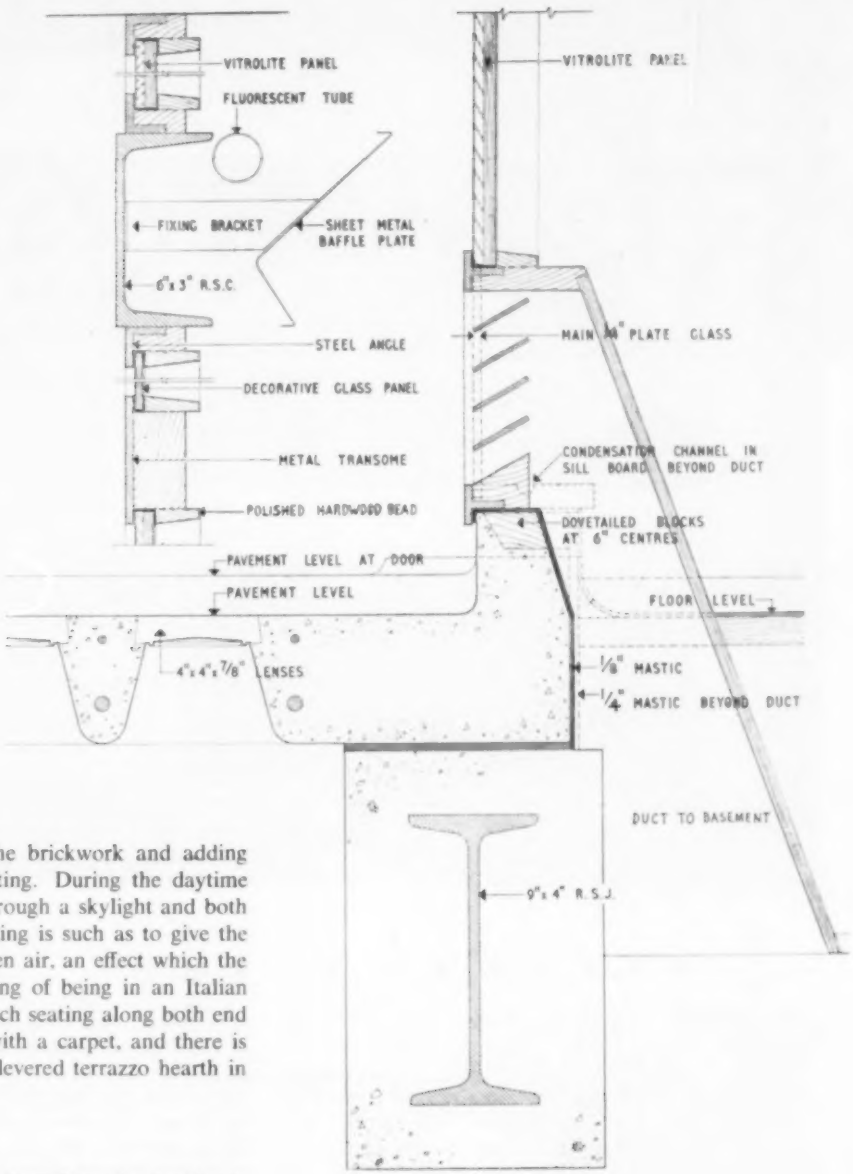
The rear part of the Coffee bar and part of the lower central area.





Shop Front. Drawing to ¼ scale.

Detail Section B-B
Through Shop front.
Scale - $\frac{1}{4}$th F.S.



Coffee Bar, Marylebone High Street

Continued from p. 708

accentuating the texture of the brickwork and adding "sparkle" to the indirect lighting. During the daytime this room receives daylight through a skylight and both by day and by night the lighting is such as to give the impression of being in the open air, an effect which the pictures convert into the feeling of being in an Italian street or arcade. There is bench seating along both end walls. The floor is covered with a carpet, and there is an open fireplace with a cantilevered terrazzo hearth in the brick wall.

Colour Scheme

The general colour scheme throughout the interior is mainly black and white, punctuated by natural materials and the sparing use of a few bright colours in the lino floor and on occasional painted surfaces.

Furniture

We were given the freedom to choose all the furniture and equipment, even to designing the Menu.

The chairs are the Arne Jacobson formed ply in palisander; the tables, which were specially designed to complement the chairs, are covered with grey and white formica.

The china, from Sweden, consists of white cups with a black line pattern on them and black saucers. All plates, cruets, etc., are in white. The cutlery is Swedish stainless steel.

General Contractor: COURTNEY POPE LTD.

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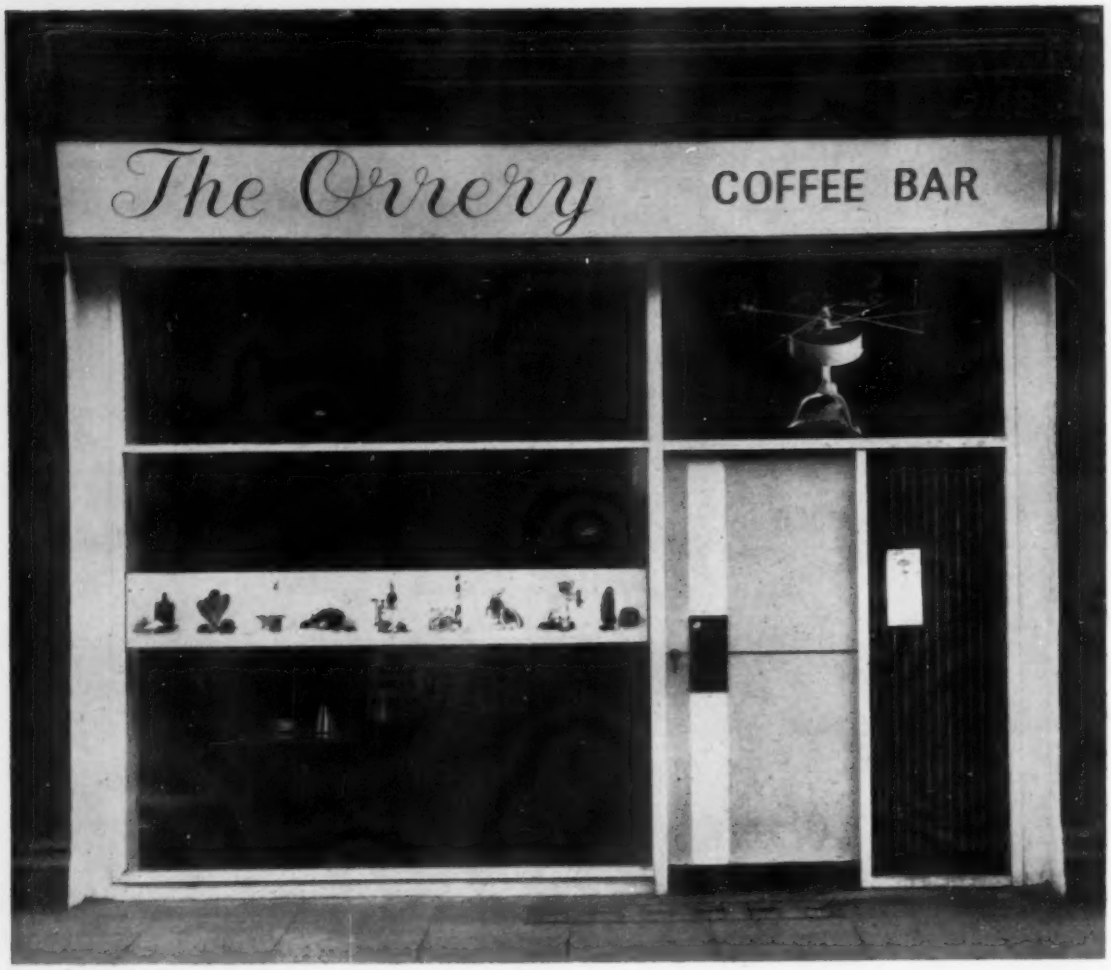
Espresso Machine, etc.	—	Riservato Bros. Ltd.



Designed by Terence Conran

INFILTRATION

COFFEE Bar, Mocha Bar, Coffee Grill, Coffee Inn, Coffee Lounge, *Café Fantaisie, Caffé Fantastico, El Cubano, Sa Tortuga*—their slinky, snaky continentalism is sidling into the British way of life, is infiltrating, outflanking, encountering head-on the bluff, plain Englishry of our Red Lions and White Harts, our Marlboroughs and Granbys, our World's Ends and Who'd A Thought Its. Already they have captured the metropolis; Oxford and Cambridge, inveterate seekers after some new thing, have succumbed to them; their tentacles are round the coasts, their genial lights glow in the murk of industrial towns. Soon we shall have the highest *espresso* on the Westmorland fells or the North York Moors, the last before Land's End, the oldest in Lincs. After a century and a half of perpendicular drinking, of port and porter, strong ale and watered beer, the Englishman finds himself again in his coffee house; only this time the Englishwoman is with him. Both the architectural and the social consequences of the innovation (in so far as architectural and social consequences *can* be unravelled from one another) are worth considering for a moment.

It could be held, I think, that the *espressos* are the first trace of a postwar idiom in architecture *to be at all generally diffused in this country*. By and large, houses, flats, offices, factories, haven't given us so many surprises, beyond perhaps the pleased shock of seeing something now and then that is good and the more frequent wonder that buildings in this day and age can be so bad. We were familiar at least with their idiom before the war. But the man who in 1939 dreamed up an importation of the continental café style so alluring that three of the creatures could exist cheek by jowl in Park Lane, that they could challenge the long-established and carefully nursed bohemianism of the King's Road pubs (to say nothing of the olde worlde tearoom atmosphere of the King's Parade)—such a chap might well have had his plans pigeonholed along with those of that premature visualiser of the tank, on which the War Office wrote "the man's mad".

At the time of the Festival of Britain it was fondly hoped that the South Bank idiom would quickly permeate our architecture of entertainment and in particular would open up new vistas for the municipal councillors of spas and seaside resorts. A study (in the course of duty) of the brochures of some two hundred watering places and holiday camps suggests that the town councillors and the entrepreneurs have not been prised away from their addiction to the wedding cake style (which at its best is simply delightful) or to that

twentyish sub-jazz style which lasted so long into the Thirties. An occasional conical flower bowl in white stone, perhaps; eschscholzias and zinnias in place of the patriotic municipal geraniums, lobelia and candytuft: but not much detectable Casson, Gardner or Lancaster. Only in the esplanade *espresso*, among the sunk ceiling lights, the pebbled or colour-washed walls, the mirrors, the cherry-red moquette or leatherette couches, the Race chairs, and the creeper-trailing slats or cords, do you perhaps remember that there was some entertaining architecture in London in 1951.

An unconventionally candid house agent, who advertises in the Sunday papers, sometimes describes his propositions as by some architect "who visited the Festival of Britain". The architects of the better *espressos* appear to have visited the Festival of Britain. Most of these coffee houses are comfortable, airy and gay, they produce exactly that effect of continental *luxe* which is so lacking in the majority of our pubs and chain teashops and eating places. (Those who complain of the Americanisation of our way of life might ponder whether Continentalisation isn't just as much a menace—all these French film stars in the magazines, these "Grille Parisiens," these French-named leg shows, these Spanish *zarzuelas* on long-playing records, these Italian opera companies.) You can eat and drink (non-alcoholically) in an *espresso* at practically any hour of the day or night. If you are going to patronise them (at any rate, the Central London ones) in the evening it is as well to have a tolerance that embraces the young of most nations and colours and that does not burke at curtain-ringed ears, horsetails, crewcuts, Burlingtons, or shirts blazoned with sunsets, landscapes and women and worn outside the jeans. Within these terms of reference the *espressos* furnish not only a very pleasant evening's sitting and observing and talking, but also a satisfying feeling that this is cheaper than a pub, though by the time you have had three or four cups of good coffee and been unable to resist several cakes and a plate or two of ravioli or *oeufs à la Florentine*, you may begin to wonder why you did not compound for milk stout and sausage rolls or a good sustaining Brunch. The *espresso* may be assumed to pay high rents and have a large capital outlay on decoration and equipment to cover.

What consequences will follow from this proliferation of the *espresso*? A better standard of public house architecture and design may well be one. The colour and novelty of the coffee bars make one suddenly conscious of how dingy, how blowsy, how uncomfortable, are all too many of our pubs, not only the almost featureless ones built or adapted between the wars, but even many of the romantically admired gin palaces with their acres of gloomy, contorted mahogany and their lack of space and comfort. Already there are signs of the challenge being taken up. Barclay, Perkins' delightful Champion behind Bourne and Hollingsworth, a spirited recreation (not a reproduction) of the Victorian idiom; Trumans' White Swan in Tudor Street (off Bouverie Street), adorned with lawyers' documents, insignia and prints; and Whitbreads' Printer's Devil in Fetter Lane, where the decoration is a stunning collection of typographical examples—all three are light, airy, elegant, inviting. And the new

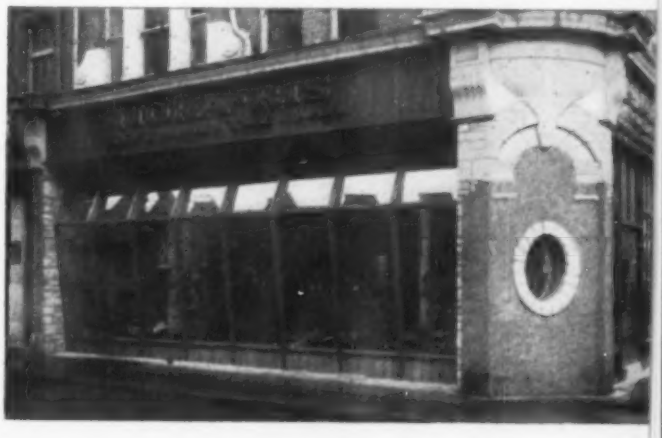
Interior of the Orrery

branches of Fullers and Lyons, not to mention the ubiquitous Forte, are showing a welcome recognition of the existence of a new architectural idiom.

As for the social impact of these institutions, it is pleasant to allow oneself a few fancy speculations, based mainly upon the simple fact that it is so much easier to talk seriously when drinking sitting down. Will they give this country something of continental café life? Might they produce a clearcut student element in the population? Will they revive the flagging revenues of municipal transport concerns? Could they lead to a revival of political disputation that might break the deadlock between the parties and confound the television pundits? Will they excite the ire of the party machines by discussing political topics in the fourteen days before they are discussed in Parliament? Will the Home Secretary, having wielded his flail on the novelists, be urged to ply his hatchet on the notoriously enervating effect of coffee and creamcakes on the nation's youth? Will the P.R.A. condemn them as "boxes"? Any place in which people appear to be enjoying themselves is immediately suspect to those in authority, to rival vested interests, to the guardians of morality and security. Already one can almost hear the whisper passing from one official circle to another. Suppress the *espressos*.

GODFREY STREET

Designed by Geoffrey Crockett



TRETOL

house for a professional man

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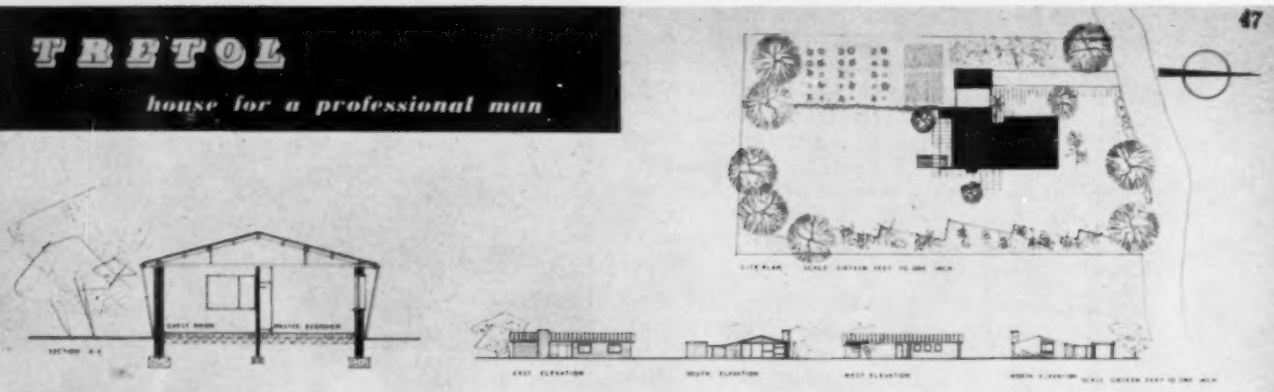
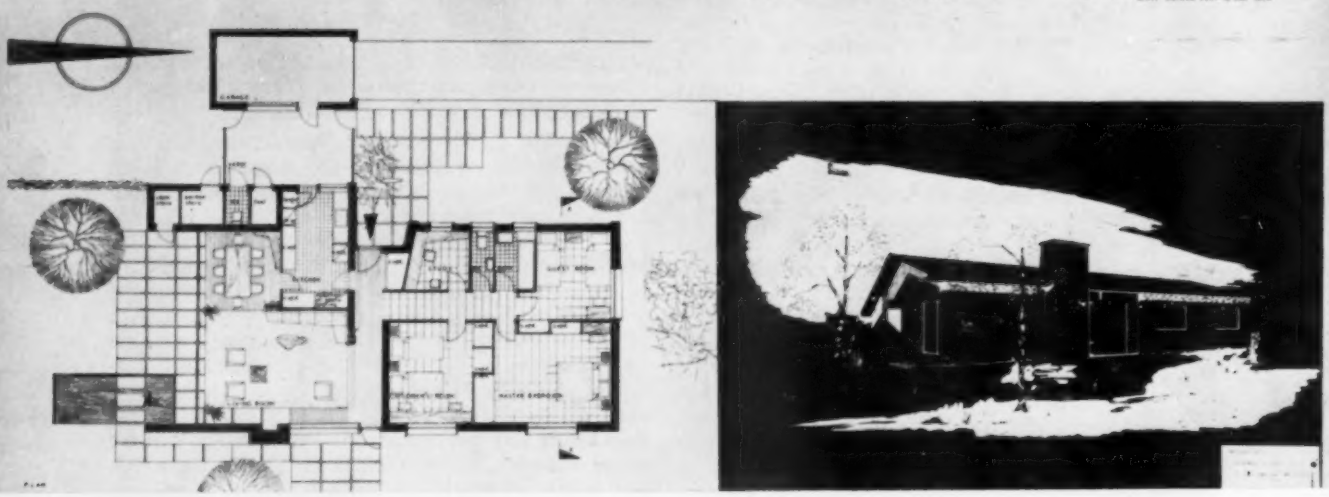
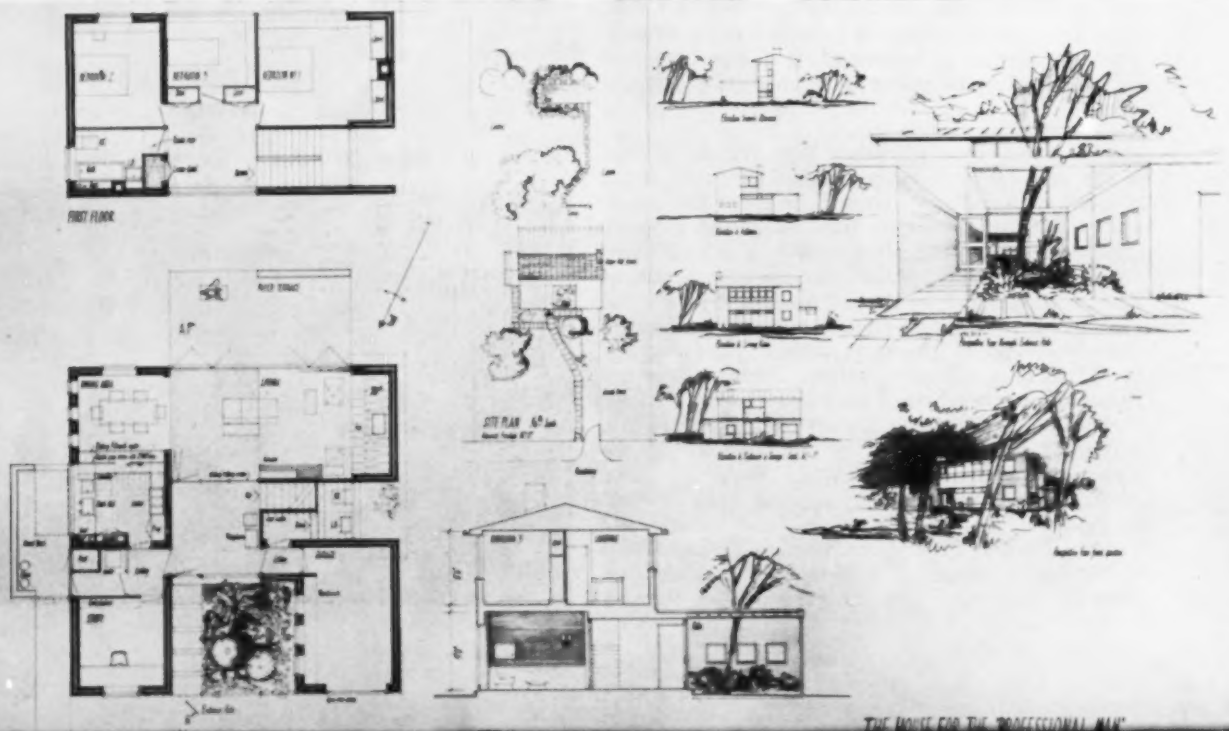
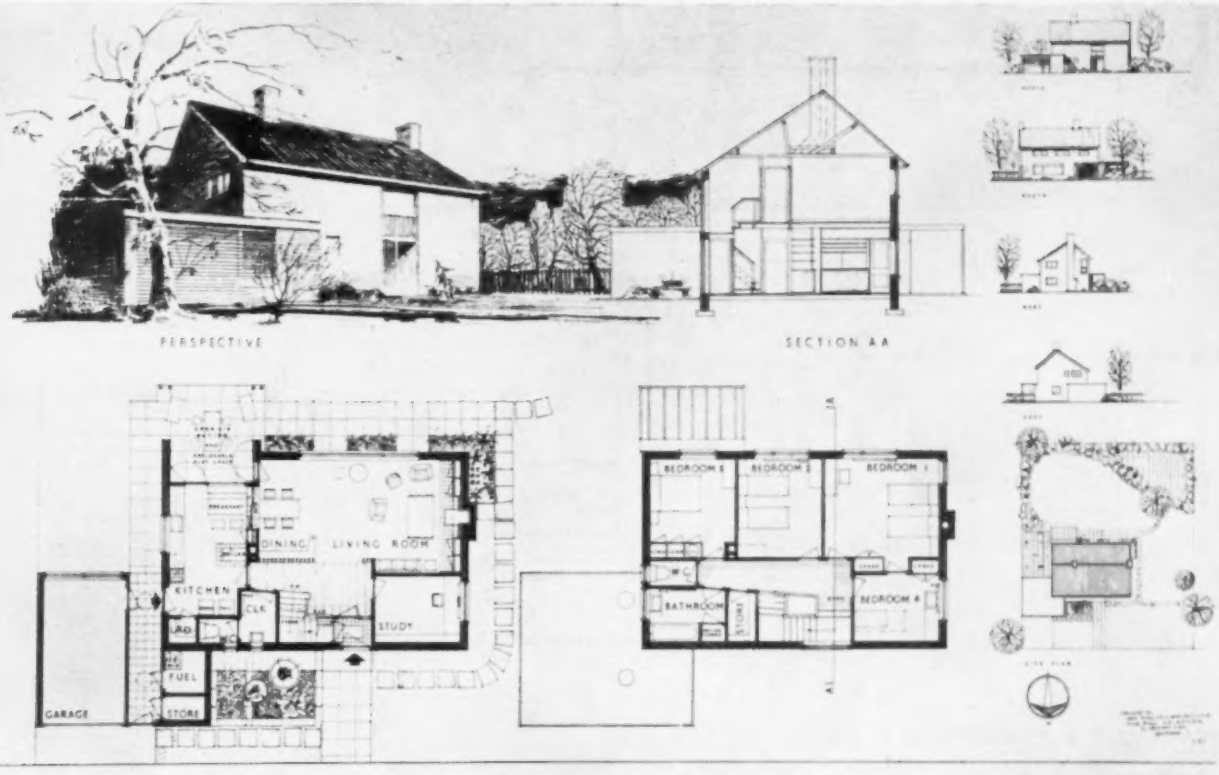




Design by P. Silsby, A.R.I.B.A.

Design by K. Bennett, A.R.I.B.A.

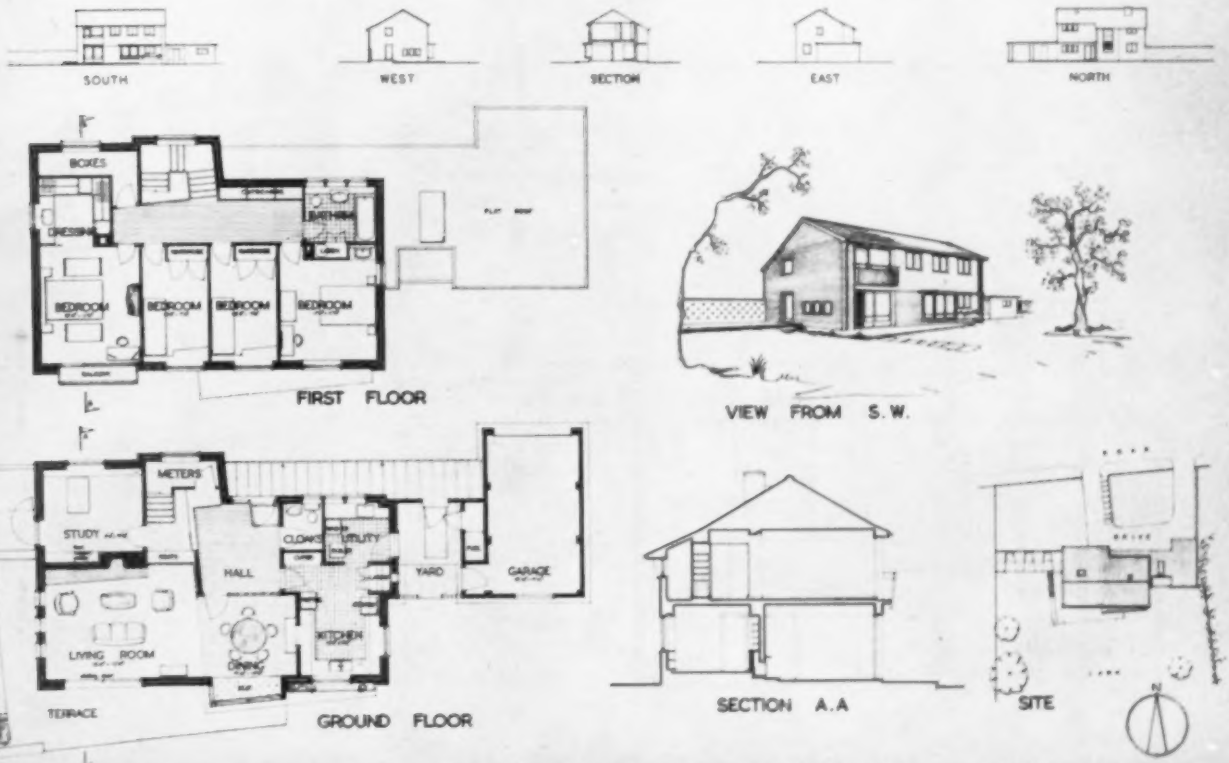




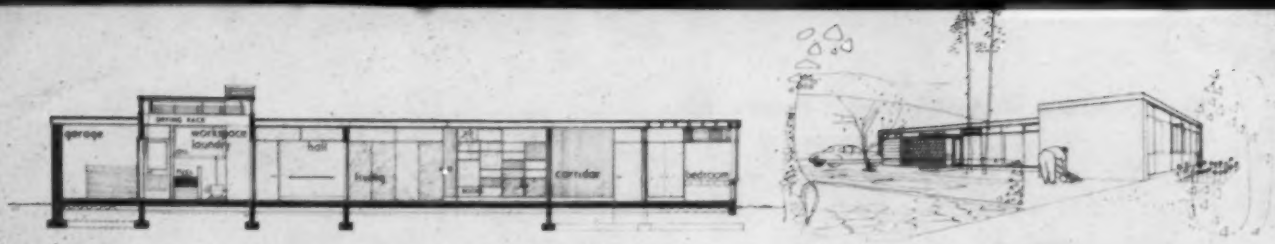
A HOUSE FOR A PROFESSIONAL MAN

Design by Mary Wragg, A.R.I.B.A., and B. Wragg, A.R.I.B.A.

Design by M. Askwith, A.R.I.B.A.



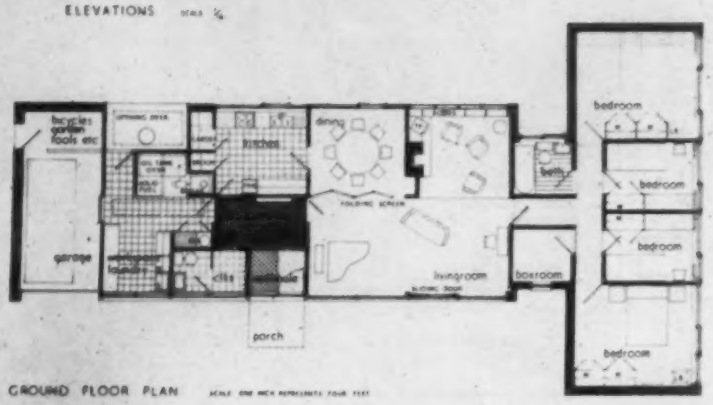
HOUSE FOR A PROFESSIONAL MAN



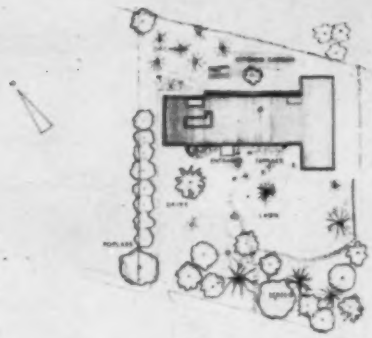
SECTION A-A

PERSPECTIVE VIEW FROM SOUTH

ELEVATIONS



GROUND FLOOR PLAN

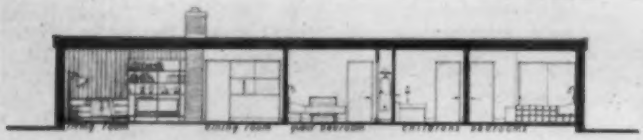


SITE PLAN

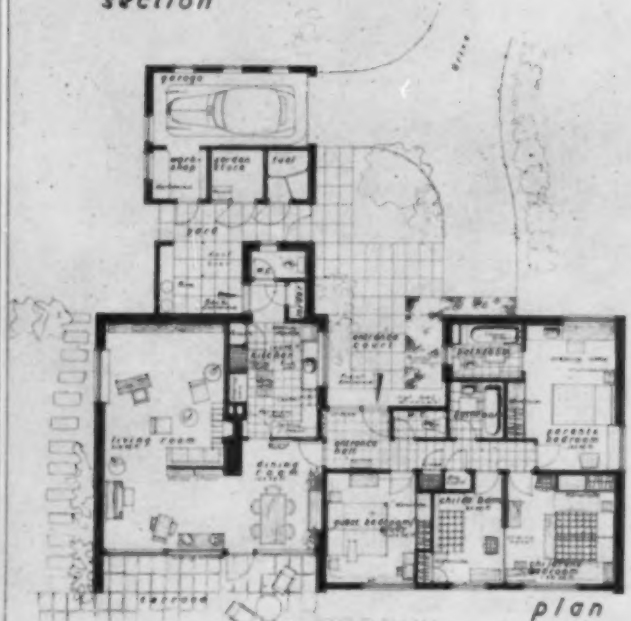
The TRETOL HOUSE *for the Professional Man*

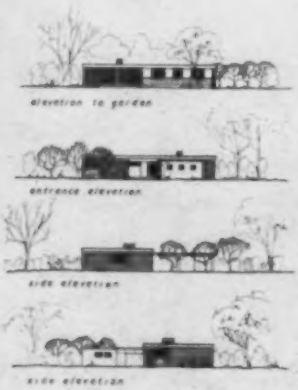
Design by Grenfell Baines & Hargreaves

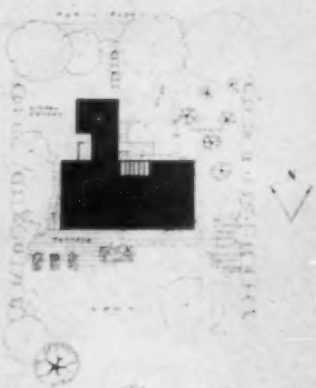
Design by K. W. Laing, A.R.I.B.A.



section







site plan

THE HOUSE FOR THE PROFESSIONAL MAN

Building Plant and Equipment at Olympia

By CHARLES CRICHTON, D.S.C., B.A., A.R.I.B.A.

THE predominant reaction of any visitor to the plant section of the exhibition must surely have been to note the attention which is being paid by manufacturers to saving of labour, by designing equipment to be as adaptable as possible, to avoid double handling and to be fool-proof.

My personal interest was drawn chiefly to advances in the field of concreting equipment and to the fact that such equipment has not been evolved piecemeal, but in answer to the demands of a new science of site organisation. It is now commonplace that all concreting labours from the delivery of cement and aggregates on site to the final finishing must be carried out as a drill, organised around the output capacity of the mixer.

On large civil engineering sites the technique has reached a high level of efficiency. Silos, batching plants, mono-rail transporters, concrete pumps and conveyors, storage and hoisting hoppers today are interrelated as to capacity and running, in such a way that concrete can be produced and placed with almost the same speed and accuracy as is found in any engineering shop.

On the other hand, there were no exhibits that I could find which showed any advance in brick handling techniques. True, there were clamp-barrows and triangular section hand barrows, but I found no brick cages or pallets prominently displayed. There is room for further research and development in the handling of bricks in this country from brickyard to laying position. The Americans, to quote only one small example, have a hand clamp which is simply dropped over about nine bricks: the upward lift grips the ends and the clamp automatically releases when the bricks are set down. I am told, though I have not seen it, that there is a truck fitted with conveyors. The bricks are loaded at the brickyard onto the conveyors and on arrival at the site the bricks are automatically unloaded and stacked. Here again the principle of avoiding double handling is evident.

Concrete Plant and Equipment

The highlights of interest in this field I found first in the Empire Hall, where Portasilo Ltd. were showing their portable cement silos. There are three models, capacities 20 ton, 15 ton and 10 ton. The first two require the handling device with hydraulic rams shown in Fig 1. The ten ton model, type 105, can be manhandled by eight men. The first question that springs to mind in connection with bulk delivery and storage of cement is whether condensation can affect the cement, which is of course blown into the silo hot from the cement company's container. With metal containers there may be some risk of condensation. The Portasilo avoids this danger since the complete silo is made of two thicknesses of laminated plywood and the only metal, which is in the feed pipe, is completely encased in a wooden sheath.

The initial cost of the ten ton model is £415. As with all mechanical aids such cost must be set against possible savings. The manufacturers claim as high a possible saving as 17s 3d per ton of cement. This is arrived at as follows:—Bulk delivery instead of bag delivery, 6s 6d per ton; unloading labour ½ manhour per ton, 2s 6d per ton; Saving in waste 2 per cent, 2s per ton; Saving of one labourer carrying cement to mixer; 6s 3d per ton; 17s 3d per ton.

I notice the manufacturers have not included the cost saving on a cement storage hut. These silos will stand on any level base without fixing. The bases are sheathed with rustproofed steel and the sides are fitted with a duralumin shod keel to enable the silo to be slid on and off the lorry.

Fig 1. A cement silo with hydraulic handling gear by Portasilo Ltd. The model does not require mechanical handling gear.

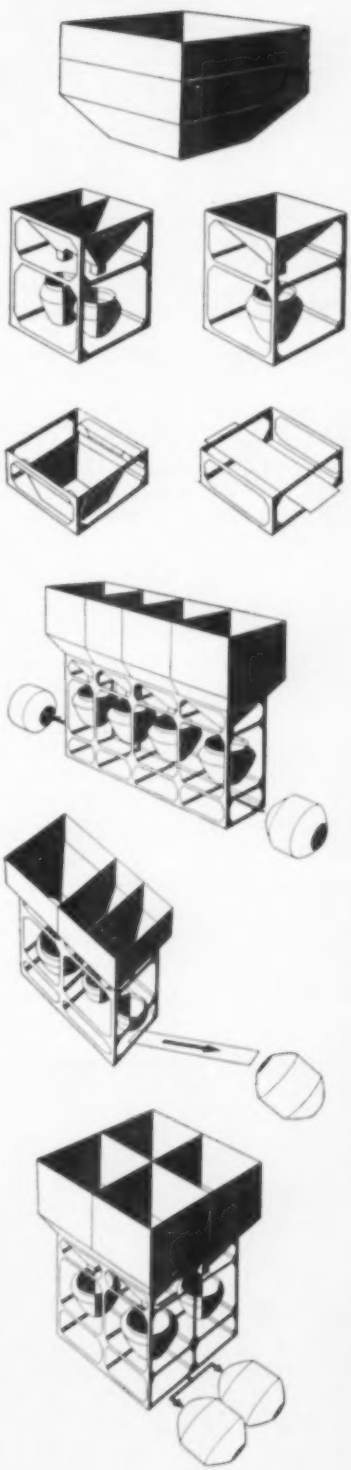


Fig 2. Standard units of the SAWO batching plant, by George Fowell Ltd.

The height of the ten ton model is 8ft 8¼in and the overall width is 6ft 5¼in. The weight complete is 15cwt.

The silo can be operated by one man, usually the mixer driver. Measurement of the cement from the silo into the feed bucket is automatic to any required setting.

I should rate this exhibit as a "must" for further investigation by medium size building firms interested in bringing greater efficiency to concreting operations. From storage to batching is a natural sequence. George Fowell Ltd. showed a working model of the SAWO batching plant. There is nothing new about the general principle of the plant. The main interest lies in the fact that the complete assembly can be built up from standard units to provide differing types of service, Fig. 2. The swinging loader allows great flexibility in positioning the mixer or mixers, a factor of considerable importance on restricted sites. The capacity of the elevator is 5¾ cu yards and it travels to either of two discharge positions in 2½-3 minutes. Discharge into either of two bins is controlled by a trip. The bin capacities are 11¾ and 15¾ cu yards. The swing loader is 1 cu yard capacity. And so to mixers. Not many developments here. Most of the tilting drum type will now discharge direct to a dumper. In this connection M.E. Engineering have modified their 5 T.S. model by raising the drum 12in to allow discharge direct into powered barrow or dumper. There was a praiseworthy sturdiness about most of the machines shown and the realisation that mixers do get badly treated has perhaps been responsible for a modification to the new Little Giant shown by Frederick Parker Ltd. This mixer now has a steel drum instead of the previous cast type.

Millars Machinery Ltd., showed 7 and 10 N.T. mixers fitted with integral weighing device. This system undoubtedly economises on the space required by a mixer and weighbatcher as separate units. A detail which caught my eye was the eccentric hopper hinge which gives a slightly higher angle and quicker last minute discharge into the drum also the shaker mechanism.

Stothert and Pitt Ltd. and the Liner Concrete Machinery Co. Ltd. had similar types of mixer with incorporated weighing gear.

A brand-new innovation in this country which may well revolutionise the accepted methods of loading aggregate to batchers and mixers in the 10/7 and 14/10 range is the

Fig 6. Self-tipping bucket hoist, by Benford Ltd.

Fig 5. Diesel dumper with low level skip, by Benford Ltd.

Fig 4. Diesel tipping dumper by Thwaites Ltd.

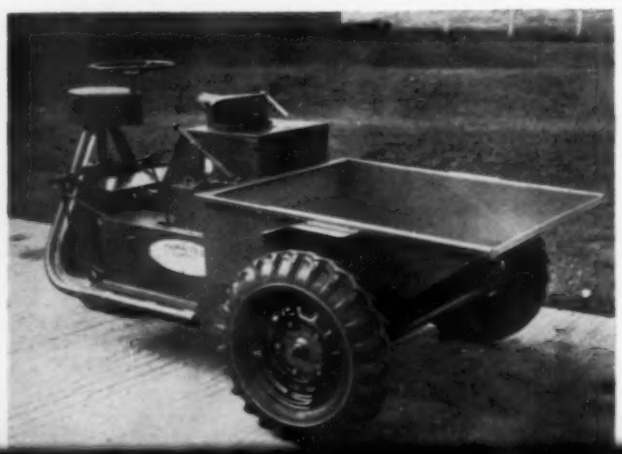


Fig 3. Mechanical scraper by Ace Machinery Ltd.

one man aggregate scraper. Fig. 3 shows the Dalli model exhibited by Ace Machinery Ltd. I have watched this scraper in action on a busy building site and can vouch for its efficiency. The operator confirmed that he had no difficulty in keeping the mixer continuously fed, single-handed and that he suffered no fatigue. The scraper can be adapted to a variety of mixer positions in relation to the aggregate pile. The scraper itself has a scoop of about 3-4 cu ft capacity fitted with mowing machine type handles. A hauling cable is attached to the sides of the scoop and passes to a special winch, which is part of the assembly. The winch is mounted close to the mixer or batcher. A control cable is connected to a switch button on the handle of the machine. This cable is slung over a counterweighted pulley attached to a convenient pole or scaffold clear of the aggregate pile.

A similar device was shown by A. B. Mould and Construction Co. Ltd. This model is known as the Reich hand-scraper. The scoop is of different design, being somewhat deeper at the back. I understand that experiments are being made to operate this scraper direct from the mixer. I can see the possible advantages but also the disadvantages.

There is no lack of variety in the methods of transporting mixed concrete from the mixer to the placing position. Several exhibitors are showing different types and sizes of dumpers which are now well known. Thwaites Ltd. are showing a 15cwt 3-wheeled hydraulic tipping diesel dumper (Fig 4). Incidentally the trend towards diesel powered machines with their slightly higher initial cost but lower running costs, is very marked.

Frederick Parker Ltd. had on show a portable conveyor with rubber belting. The frame is of light tubular construction.

Witlor Ltd. demonstrated their Arley skip units for use with Fordson major tractors. An advantage of this type of unit is that the skip (which is either hydraulically or hand tipped by the tractor driver) can be easily detached leaving the tractor free for other work as required. The skip has a struck capacity of 18 cu ft. The unit will transport a load of 2,000lbs and is therefore suitable for operation with two 10/7 mixers or one 21/14 mixer. The price of the hydraulic model is £66 15s 0d and of the hand-operated type £43 10s 0d. Lids are extra and cost £7 1s 0d.

A new two-speed (both backwards and forwards) diesel dumper was shown by George Fowell (Sales) Ltd. Change from low to high speed is possible while the dumper is in motion by the simple process of moving the speed control lever from one side to the other to engage rollers of different sizes. There is no clutch. This machine is available in the half ton and three quarter ton range, has a forward tipping skip and is sturdily built with four wheels on a strong and simply designed frame.

For transporting from mixers in the 10/7 and 5/3½ range, Benford Ltd., offer their Mark 1 diesel dumper fitted with Lo-lip skip (Fig 5). Here again the four wheels make for greater stability on rough ground.

The bucket hoist assembly shown by this firm will probably prove attractive to many medium and small firms for positions where barrows have to be used at scaffold level. The complete unit is shown in Fig. 6. The mixer is a 5/3½. The skip is self-tipping and feeds a receiving hopper at high level. The receiving hopper capacity is 6 cu ft.

The price of the complete unit powered by diesel is £289 or by petrol £265. Easy payment terms are available or one complete unit may be hired for £6 per week. The maximum lift is up to 18ft.

With the increasing use of cranes a variety of hoisting hoppers and buckets with bottom or side discharge are

New roll-over concrete buckets by Acrow (Engineers) Ltd.

Fig 9

Fig 8

Fig 7

Building Plant and Equipment

now available. Figs 7, 8, and 9 show three features of the new roll-over concrete buckets made in ¼, ½ and 1 cu yard sizes by Acrow (Engineers) Ltd.

Fig 7 shows how the curved protective tubular frame enables the bucket to be lowered and rolled over by gravity to take the mixer discharge. Fig 8 shows the adjustable fins on the side discharge model which can be angled to give a narrow throat for feeding into restricted positions such as reinforced column forms, as shown in Fig 9.

Note that the bucket can rest on the column while pouring. No shutes, funnels or boards are required. The throat adjustment referred to above can be suited to columns of 18in down to 12in in width.

Shuttering for Concrete

Several firms were exhibiting metal shuttering of unit design. This type of shuttering is eminently suitable for straightforward work and designers have used their ingenuity to obtain maximum flexibility. To make full use of the adaptability of different units, however, involves the use of many different parts and, in many cases, loose fittings which are the bane of the builder. Most manufacturers have reduced the number of units needed to cope with any normal problem and rely on timber spacers to make up odd sizes. In this connection we return without apology to our original plea that architects and engineers could do much to simplify shuttering schedules by designing to suit standard shutter sizes whenever possible.

Acrow (Engineers) Ltd. showed a prototype for adjustable shuttering for columns. The four basic units are 3ft 0in × 2ft 0in wide wall-forms stiffened horizontally instead of vertically. Corner brackets, in conjunction with these stiffeners act as an efficient column clamp. The wall form units are built up to form a column box 9ft 0in high. The units themselves are adapted so that they can be set in the form of a square with each side projecting at one end beyond the end of the adjoining side, so that the four sides can be moved in ¼in adjustments to form square or rectangular columns from 18in down to 10½in. A minor but significant innovation by Acrow Ltd. is the substitution of plastic for wood or metal in the cones at the ends of their formwork spacers. These cones have to be withdrawn from the concrete when the shuttering is struck and the smoothness and shape of the cone greatly facilitates this operation and causes minimum damage to the fair face. Numerous variations of clamp have been devised to hold metal shuttering in position. One system which caught my eye was that shown by A. B. Mould & Construction Co. Ltd. In this system loose parts such as units, bolts and the necessary spanners are reduced to a minimum. The waling clips perform a duel function of securing one panel form to the next or to the channel soldier and securely holding the walings which are of standard scaffold tube. Fig. 10 illustrates the system.

Other exhibitors who showed metal formwork included Rapid Metal Developments Ltd. on stand 114 and Kwikform Ltd.

In their Mark II formwork Kwikform undoubtedly have a winner for simplicity and speed of erection. Two major advantages are the ease of alignment without the need for numerous distance pieces and the reduction of loose parts to a minimum. There are only four main components and minor dimensional adjustments are made up with slotted timber fillers.

Also shown on this stand for the first time was a new bridging unit for tubular construction. The basic elements are an "N" frame 4ft 2in high by 5ft 0in wide and a patent "N" frame coupler. Both are illustrated in Fig 11.

The load carrying capabilities of this bridging allow 4 tons safe distributed load to be carried over spans of 40 feet and 2.66 tons over 60 feet. Although the primary object of this system is bridging it would appear to have many uses for the general contractor; for instance in spanning scaffolding over openings which have to be kept clear for traffic and possibly for constructing light travelling gantrys and internal scaffolding. An "A" unit of triangular shape is available for springing cantilevers.

While thinking of tubular work attention may be drawn to a new system of unit scaffolding by David Roberts and Company (Engineers) Ltd. The outstanding features of this invention are the entire absence of loose parts required for erecting the main frame and the fact that angles can be substituted for tubular ledgers or used in conjunction with tubular ledgers and uprights to give greatly increased strength without appreciably increasing the size of the basic members. For example two angles surrounding a tube hardly increase the girth yet quadruple the strength.

The gimmick lies in the incorporation of box type

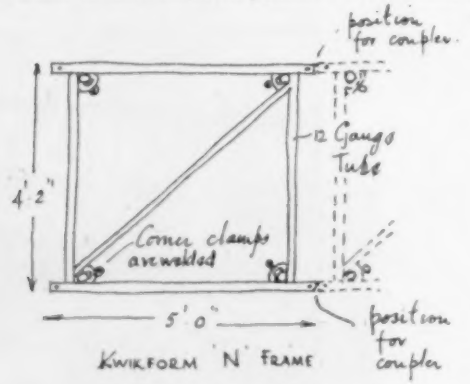


Fig 11. New bridging unit for tubular construction, by Kwikform Ltd.

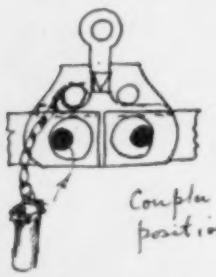
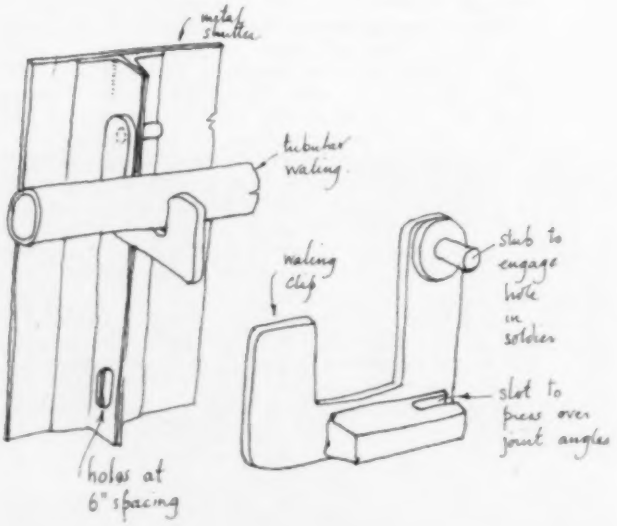


Fig 10. Waling clip by A. B. Mould & Construction Co., Ltd.



corner clamps, which are welded to the uprights and horizontals of the unit frame. These corner clamps have captive bolts and are shaped so that the ledger simply drops into position. Putlog members have a built-in clip at one end by which they are secured to the ledgers.

Diagonal bracing if required may be added by using any standard couplers.

The sketch, Fig 12, illustrates the principle.

Placing and Finishing Concrete

Vibration as a principle is now accepted as essential to economically strong concrete. There are numerous models of poker vibrator now available, many can be detached from the shaft for replacement by other tools such as grinders. I would not subscribe to this idea—the risk of getting grit and dirt into the bearings when changing tools on site is too great.

The shaft itself can create problems. If insufficiently reinforced there is danger of damage by kinking or from impact by wheeled vehicles. This difficulty is overcome in theory by vibrators with the motor contained in the head, but there still has to be a length of protective tube for immersion in the concrete. The Johnson Multibrator comes into this category. The poker is 21in long and 2¼in diameter. The frequency is 12,000 revolutions per minute. The great advantage of this type of vibrator is that the power unit can be out of harms way and four vibrators can be worked from it at points 300ft distant.

Models of this poker were shown on the stand of C. H. Johnson (Machinery) Ltd. Another poker with built-in motor was shown by David Roberts & Co. (Engineers) Ltd.

Of the standard types my personal preference is for the Winget model shown by Witlor Ltd. The points of merit are the high vibrating frequency of the poker with a relatively low turning frequency in the flexible shaft—a feature which avoids overheating—and the exceptional toughness of the shaft reinforcement together with the patent winding which prevents any risk of kinking and reduces the danger of damage from impact. The shaft is easily connected to the motor which in itself is light and manoeuvreable. Finally, the poker design itself is foolproof and highly resistant to wear.

From internal vibration to external vibration is a short step — in this particular case about ten feet. For on the same stand was exhibited a new screed vibrator of Swedish origin marketed in this country by Winget Ltd. and distributed by Witlor Ltd. Petrol or electric models are available.

For heavy duty industrial floors, bridge slabs and small road projects this screed vibrator has the advantages of a relatively wide base plate (7$\frac{15}{16}$in) and an incorporated adjustment which curves the base plate from end to end to form cambers. Standard lengths are 8ft 3in, 9ft 10in and 11ft 5in. This screed vibrator has a centrally mounted electric motor and two vibrators set at about 3 ft from the ends. The control switch is set conveniently on the lifting handles. The vibrator will compact harsh to very stiff mixes with a slump less than 1½in. The entire construction is of metal and the screed itself is trough-shaped (Fig. 13). Prices range from £194 to £237.

A different version is the new Model III vibrator made by C. H. Johnson (Machinery) Limited. The vibrator is supplied separately for use on screed boards to be supplied by the contractor. Handles and travelling rollers are also supplied to complete the outfit. The vibrating unit costs £73 10s, the handles cost £12 12s, rollers are £3 3s per pair and remote control to the Villiers engine costs £1 12s 9d. See sketch Fig 14.

The frequency of the vibrator is 4,000 rpm, the claimed capacity exceeds the output of two 14/10 mixers working continuously. A feature of the equipment is the new design of handles which have incorporated springing to eliminate transmission of vibration to the operators.

To put a nice finish on this article, let us consider two floating machines of different types.

One is the Dixon Power Float shown by Columbus Dixon. Ten times faster than hand screeding, is the maker's claim and since these machines do produce an excellent finish the time saving is a factor to be considered. The machine can be used for finishing direct on site concrete or on screeded work. Harsh dry mixes are easily dealt with. This is an all British product, petrol operated and costing £198.

The rotor is a solid disc. Handles and a lifting bar are provided for ease of carriage.

The other type with separate interchangeable and adjustable screeding blades was shown by George Fowell (Sales) Ltd. The net weight of this type is only 105lbs, the trowel diameter (three rotating blades) is 34in with a speed of from 50-100 rpm with handlebar control. I have not seen either model in actual operation but mounting sales figures seem to predict a big future for this device.

Fig 12. A new system of unit scaffolding, by David Roberts & Co. (Engineers) Ltd.

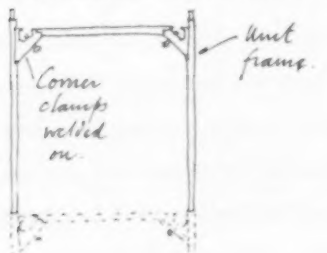


Fig 12

Figs 13 and 14. Two forms of vibrator.

Fig 13 is marketed by Winget Ltd. Witlor Ltd. are agents Fig 14 is by C. H. Johnson (Machinery) Ltd. agents Youngman Ltd.

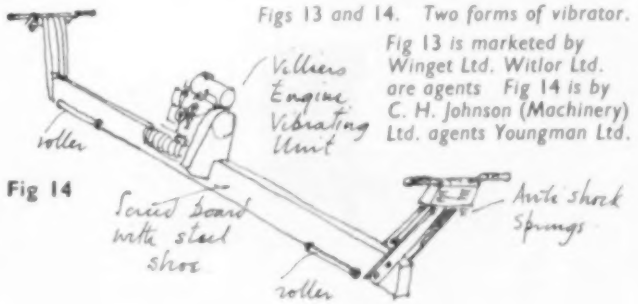
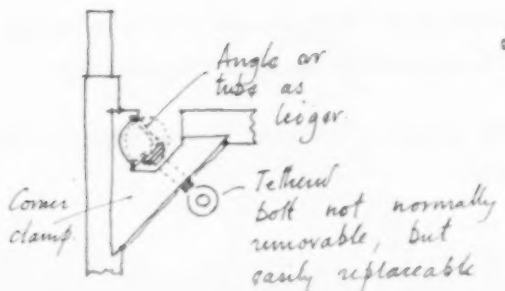
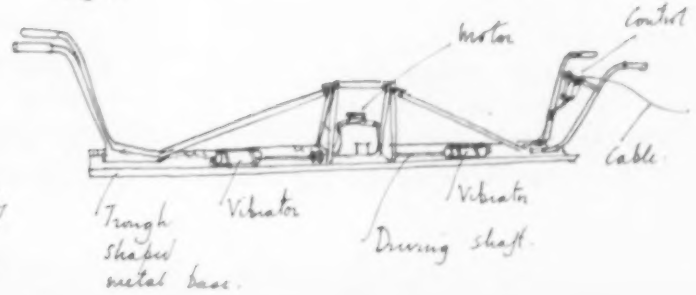
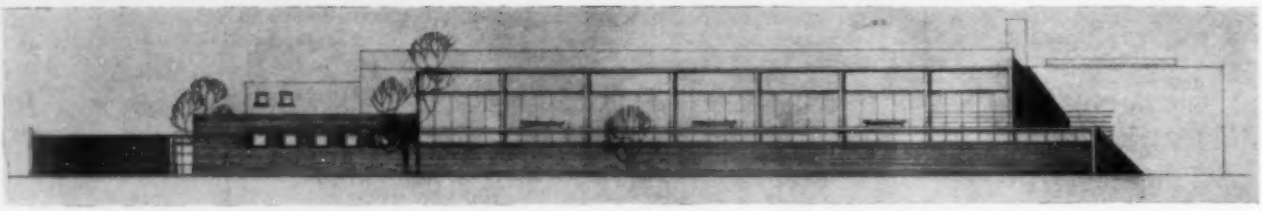


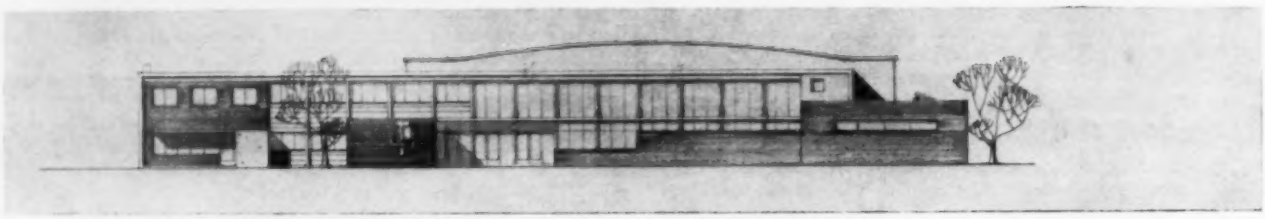
Fig 14

Fig 13

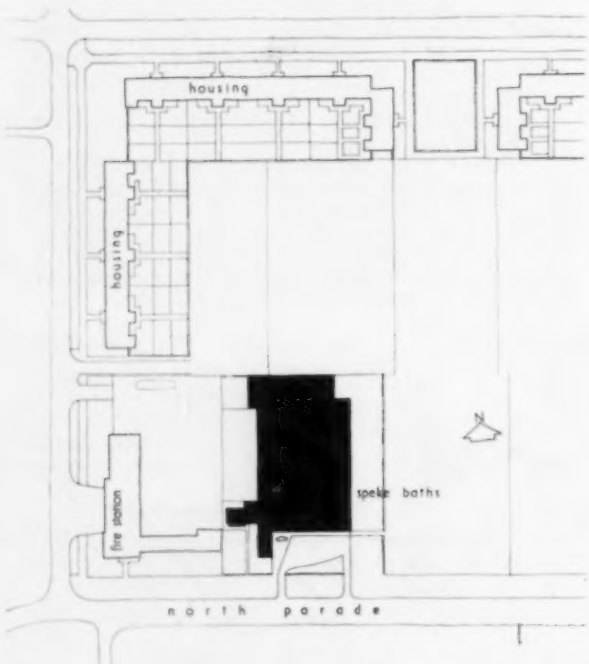








Proposed Swimming Baths for Speke, Liverpool



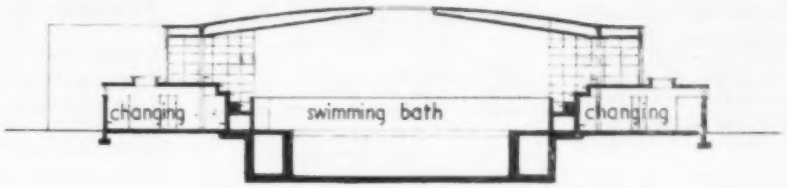
Architect:
Dr. RONALD BRADBURY,
Ph.D., F.R.I.B.A., A.M.T.P.I.
City Architect and Director of Housing, Liverpool.

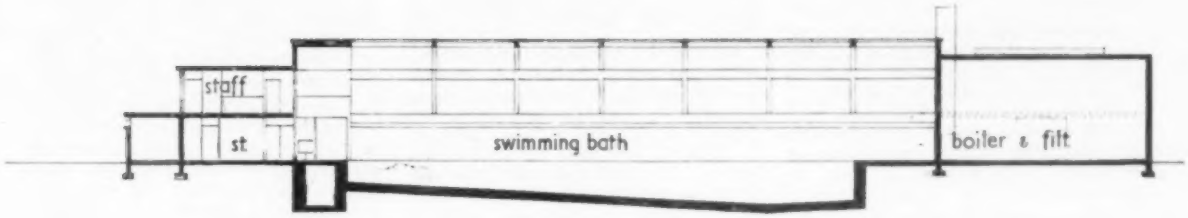
THIS proposal will be one of the first major public buildings to be erected in the Town Centre, which is at present in course of development.

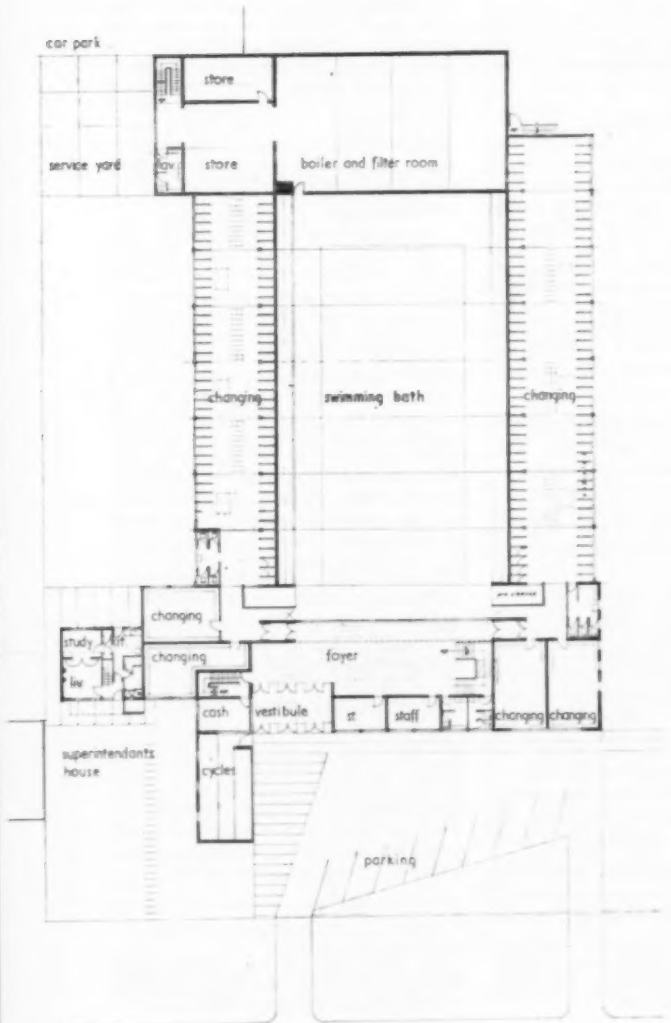
The building will front on to a main thoroughfare and be flanked on one side by a pedestrian greenway.

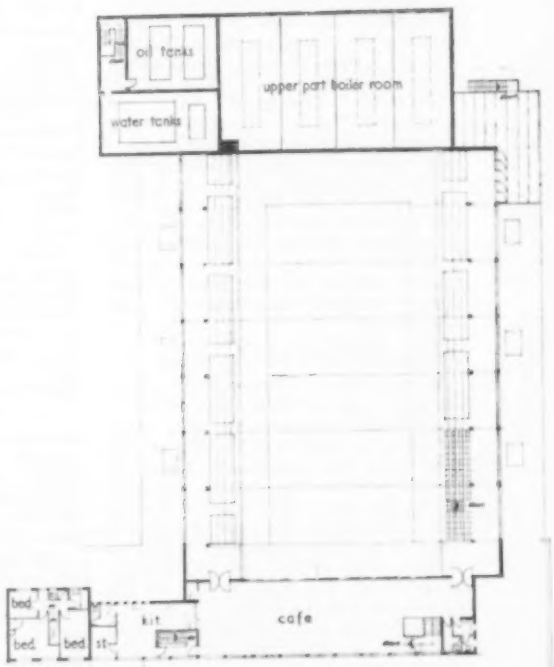
Adjacent to the main entrance and in full view from the Superintendent's Office will be covered parking facilities for cycles. A large entrance vestibule with pay desk will give access to a spacious foyer, separated from the Bath Hall by glazed curtain walling which will afford a complete view of the 100ft × 42ft swimming pool. At either end of the foyer there will be direct access to changing rooms for both sexes, including separate accommodation for children. A staircase at one end of the foyer leads to a promenade lounge on an upper floor overlooking the Bath Hall and giving access to spectators galleries along both sides of the swimming pool. A small kitchen and snack bar will be provided for light refreshments. Self-contained living accommodation on two floors, attached to the main building, will be provided for the resident Superintendent.

The project is estimated to cost approximately £130,000.









SCALE: 1in = 48ft

A.A. School of Architecture

Entrance examinations for admission to the First Year will be held on March 12, 1956 (followed by an interview on March 13 and 14, 1956), and, subject to special conditions, on July 17, 1956 (followed by an interview on July 18).

Closing dates for applications March 1, or July 1 for the second examination. All candidates, including those applying for Entrance Scholarships, must take the Entrance Examination.

Selection Board for admission to Years other than the First will be on April 30, 1956, followed by interviews in the afternoon and on May 1.

Closing date for applications, April 1. All candidates must appear before the Selection Board, and must be seventeen years of age or over on September 1, 1956.

Entrance Scholarships offered for 1956 by the Council of The Architectural Association:

Leverhulme Scholarship to the value of £2,000 over five years; *Allied Ironfounders Scholarship*, value £75 per annum; *Metal Window Scholarship*, value £75 per annum; *Patent Glazing Scholarship*, value £50 per annum; *The Builder Scholarship*, value £75 per annum; *The Hadley Scholarship* (presented by Past Students of the School), value £75 per annum; *The Thomas Wallis Memorial Scholarship*, value £75 per annum. These Scholarships, which are offered to applicants of British nationality, are tenable in the first instance for the First Year, and may be renewed from year to year for the remainder of the course, subject to the holder's continued progress and need for such assistance.

Senior Entrance Scholarship

Metal Window Senior Scholarship, value £50 per annum. This Scholarship, which is tenable for two years, is open to students of British nationality who have passed the Intermediate Examination of the R.I.B.A., either externally or at another Recognised School of Architecture, and is for entry to the Fourth Year of the course and subject to satisfactory progress by the student will be renewed for the Fifth Year.

Particulars and Application Forms from: *The Principal*, Architectural Association School of Architecture, 34-36 Bedford Square, London, W.C.1.

R.I.B.A. Maintenance Scholarships. Full particulars from the Secretary to the Board of Architectural Education, 66 Portland Place, London, W.1.

A.R.C.U.K. Maintenance Scholarships. Full particulars from A.R.C.U.K., 68 Portland Place, London, W.1.

Local Education Authority Awards. Full particulars from the Chief Education Officer of the Education Authority in which the applicant lives.

Christmas Holiday Lectures at the R.I.B.A.

Three informal lectures for boys and girls will be given during the Christmas holidays by Mr. William Allen, A.R.I.B.A., Chief Architect of the B.R.S. The lectures will be accompanied by demonstrations, films and slides and will have as their title "Architecture Inside Out." The lectures are designed for boys and girls of 13 years of age and upwards and are to be given in the Henry Jarvis Memorial Hall at 66 Portland Place.

Lecture 1. Materials for Building, 3 p.m., Monday, January 2; Lecture 2. The Shape of Buildings, 3 p.m., January 4, and Lecture 3. Light, Sound and Colour, 3 p.m., January 6. Tickets for any or all of the lectures free on application to the Secretary, R.I.B.A. Envelopes should be marked "Christmas Holiday Lectures" in top left-hand corner.

I.A.A.S. Examination

The Incorporated Association of Architects and Surveyors announce that the London County Council has decided to confer recognition on the Association's final examination in respect of quantity surveyors and building surveyors. The resolution which the L.C.C. has adopted states:

"That the final examination of the Incorporated Association of Architects and Surveyors for quantity surveyors and building surveyors, on the basis of the general regulations and syllabus published in 1954, be recognised by the Council as a qualification for new entrants to grades up to and including professional grade III or the first class (a) (technical) in the Chief Engineer's, Architect's, Valuation, Housing Management and Parks Departments."

Towns and Their Hinterlands

An explanatory text* has been issued by the Ministry of Local Government and the Department of Health for Scotland to assist in the interpretation of the "Local Accessibility" map published in April this year.

This map is the latest addition to the series of "Ten Mile" Planning Maps (on the scale of 1/625,000).

An important message of this map and of the accompanying text is that for very many purposes towns should not be considered apart from the territories they serve. The population and nature of the hinterland will influence, for example, the size of town shopping centre and car parking accommodation. For this reason the map is already proving useful to administrators in both central and local government, to town and country planners, and to experts in the field of advertising and market research.

**Planning Maps—Explanatory Texts. No. 6 Local Accessibility. Ordnance Survey. Price 9d. net.*

TIMBER SUPPLY NOTES

THERE has been no sign of weakness in softwood prices, and some of the sales made recently have been below replacement costs when higher freight rates are taken into account, and the industry faces either a rise in the cost of softwood to the consumer, or absorbing the difference. Most favour a small increase in selling prices, though the addition is not likely to be more than 5 per cent.

From log auction news in Sweden and Finland, and data on price ideas from the shippers, it is reasonably certain that no increase in the price of softwood will be seen in the opening months of 1956. Stocks are high in almost all grades and sizes. At a conference in Hamburg of softwood importers and exporters, the shippers were asked to improve their grading and kiln drying, and to make a greater allowance for shrinkage in their sawing.

Dollar hardwood prices are staying high, due to demand on the American continent. However, there has been some easing of Japanese hardwood prices, and many firms are offering parcels of hardwoods on the market at cut prices to reduce bank overdrafts. It is doubtful whether hardwood prices will go any lower than they stand at present, at least not for some months.

A similar position exists in the plywood trade. Sales are being made at prices which can hardly be repeated if the firms are to stay in business, and this applies especially around London, where financial and storage difficulties add to the problem of a bloated stock. Most of the popular building trade lines are readily available, and there is a move by the Canadian plywood manufacturers to interest the building trade in the use of sheathing and underlay sheathing grades of Douglas fir plywood. These grades have most of the structural qualities architects might require, but none of the decorative qualities associated usually with plywood, many blemishes being permitted in the face of the plywood, provided they do not affect the quality of the product structurally. Price will probably be the final factor in settling the popularity of this line in Britain.

Hardboards are held in large quantities by many firms, some of whom are most anxious to sell at low prices in order to reduce their holdings. News of the market prices to be charged by the Scandinavian shippers for the first part of next year is that there will probably be a slight drop in values, especially if the freight rates ease.

CORRECTION

On page 683 of last week's issue the scale under the drawing should be ¼ FS instead of 1in = 3ft.

Building Research in Australia. 1952—1954

AS in previous years this report, published by the Commonwealth Department of Works, provides very interesting reading in its description of the work of some four establishments which operate under the Building Research & Development Advisory Committee of Australia. Unlike some previous reports the committee made a special examination of the whole research programme for 1954/55 and reached the conclusion that it provides a great potential benefit to the improvement of Australian building practice. It is worth noting, however, that it decided that it is apparent that the initiative must be taken by the building industry in adopting the technical developments if the community is to benefit from them.

It is interesting to note a complaint by the committee, which is often echoed in other countries, that it has noted with concern the relatively slow progress of several major investigations. The difficulties are put down, apart from budget limitations, to the difficulty of finding and retaining the suitable staff.

The committee has decided that fire testing is of the highest importance with a view to establishing data and quickly publishing Australian fire ratings. One is inclined to wonder whether this necessary information is not already in existence in this country and the U.S.A. and that very little work could provide what is needed for Australia as the materials used do not seem to be very unlike those of other countries and consequently one is left with a feeling that this Research Establishment, like others, is disinclined to accept the findings of other research organisations.

It is noted that the committee is impressed with the possibilities for economy resulting from the use of lightweight forms of construction. It is to be hoped that there will not be the prejudices in Australia that exist in some other countries and which weigh so heavily against new developments. The existence, close to main population areas, of extensive deposits of gypsum and vermiculite should help these developments.

On the subject of Building Regulations the committee notes that a more flexible outlook is developing in the consideration of projects embodying new materials and methods. It seems, however, that the drafting of a model building code has not proved feasible but that there is a closer liaison between the building authorities and the research organisations; it is to be hoped that local prejudices will ultimately give way to the preparation of national regulations, which experience in this country has shown to be a very important factor in any country.

Much of the research work has assisted the publication of standards for materials and components and this is considered to be, as in this country, an essential link and as an aid the chief of the Standards Association of Australia is a member of the committee. The report indicates that the Standards Association will soon be in a position to produce a handbook to facilitate easy reference by those who design and build. It may be that the long established B.S.I. Building Handbook has impressed at least one of its overseas parallel organisations.

The remainder of the Report relates to the brief statements of the research undertaken during the year in the various establishments, some of which are very interesting in the light of work in this country.

Much attention has been directed to a lightweight material, cellular calcium silicate which is an autoclaved mixture of hydrated lime and silica flour. Building blocks for walls, roofs and suspended floors have been produced having a compressive strength of 8,500 lb per sq in at a density of 65 lb per cu ft. Lightweight aggregates are also receiving much attention. In the field of clay and clay products a survey of structural products has been completed and a study of the clays used in industry has started. Attention is being given to expansion of brickwork and it has been found that many clays expand irreversibly up to 0.2 per cent. the first few times they are wetted after burning. Deterioration of tiles used near the sea is also being investigated. Trouble has been experienced with the staining of fibrous plaster affecting decoration and this is also being studied.

Survey work on the need for a moisture barrier in concrete floors laid on the ground is in progress and the conclusion has been reached that barriers are unnecessary on most sites when the floor coverings are of magnesite or stuck down lino or rubber if a layer of hardcore is used and on well drained sites even this precaution may not be necessary.

DUTCH UNCLE.

Collusive Tendering

The President of the Board of Trade announced on November 2, that he had required the Monopolies and Restrictive Practices Commission to submit a report on the general effect on the public interest of common prices, collusive tendering and similar practices.

The Chairman of the Commission, Sir David Cairns, has appointed the following group of members to make this investigation :—

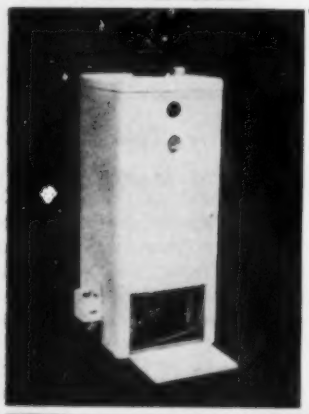
Sir David Cairns, Q.C. (Chairman), Professor G. C. Allen, Sir Thomas Barnes, G.C.B., C.B.E., Mr. W. G. Cullen, Mr. Brian Davidson, Mr. C. N. Gallie, Mr. C. H. P. Gifford, O.B.E., Mr. W. L. Heywood, O.B.E., Mr. I. C. Hill, Mr. C. E. Wrangham, C.B.E.

The Commission already have at their disposal a certain amount of information about the operation of these practices, both from their own earlier inquiries and from reports by other bodies. The Commission will nevertheless need to supplement this evidence extensively and to bring it up to date. They will be approaching trade associations and other bodies for this purpose, but they would also be glad to hear from all interested persons or organisations who wish to offer evidence. Those who wish to submit such evidence are asked to inform the Commission as soon as possible of their intention to do so, explaining briefly their interest in the matter and when they expect their detailed evidence to be ready. All communications should be addressed to the Secretary, Monopolies and Restrictive Practices Commission, 8 Cornwall Terrace, Regents Park, London, N.W.1, telephone No. Museum 8801. Copies of the terms of reference can be obtained from the Commission.

MOSAICS

PLANT
LIFTING GEAR
E6/20

The "Munck" hoist No. 221 covers a range of from 5 cwt to 2 tons lifting capacity. Other sizes of "Munck" hoists, produced by Taylor Stoker Co. Ltd. of 189/191 Drummond Street, London, N.W.1., cover a range of 2½cwt to 10 tons. A particular feature of these hoists is the height of lift as normal standard. For example, a 1 ton single-rope hoist has a lift height of 66ft while a 10 cwt hoist and a 5 ton hoist have lift heights of 79ft and 39 ft respectively. Two hoists can be coupled together to give greater lift heights and two lifting speeds by operating one motor independently or two together. Hoisting speed is up to 115 ft per minute dependant on size of hoist. The hoists are of all-steel construction enclosed in a steel housing with motor automatically engaging or releasing the brake. A rope guide ensures the rope winding correctly on the drum and also automatically actuates a limit switch to prevent over-winding and over-lowering.



SERVICES
WATER HEATING
B6/39

The "Oilmaster" oil-fired domestic storage water heater, by Turley & Williams Ltd., of 74/76 Borough High Street, London, S.E.1, is claimed to be smokeless and odourless when connected to an outside flue 16/20 ft from floor level of the heater. There are two sizes: (1) 25,000 B.Th.U. per hour and (2) 30,000 B.Th.U. per hour. Fitted with natural draught wickless burners for use with either paraffin or any gas oil (D.E.R.V.) up to 35 seconds Redwood. The storage tank is of 30 gallon capacity and is self contained in the unit. The oil flow is fitted with a manually operated "on and off" valve and there is full thermostatic control of the water temperature which can be pre-set on a range of 120-160 degrees F. A safety oil flow cut-off is fitted which operates in event of flame failure. Fuel consumption: approx. ¼ gallon per 24 hours. Dimensions: 5ft 1in high x 2ft 3in wide x 1ft 9½in deep. Finish: Stove enamelled ivory.

PLANT
WOODWORKING MACHINERY
E1/16

The new P.G.V. vertical linisher by A. Cooksley & Co. Ltd., of 21-25 Tabernacle Street, London, E.C.2, is a compact motorised machine. It is fitted with an 8 in sanding belt and also a sanding disc and pneumatic bobbin if required. Specifically designed for cabinet makers and furniture makers it is also suitable, when fitted with an emery belt, for use in ironfoundries and engineering works for smoothing rough castings or rusted steel. It can also be supplied with an automatic dust collector unit (as illustrated), thus providing a completely self contained, self exhausting machine.

SERVICES
MISCELLANEOUS
B7/6

The "Winston Tellaloud" is claimed to be the first completely successful loud-to-loud loud speaking telephone, which can be used anywhere. The equipment consists of a cabinet housing a loudspeaker, microphone and microphone amplifier, automatic telephone dial, if required, and internal communications switch keys and separate amplifier or power unit. The cabinet sits on the user's table, while the power unit may be placed anywhere up to 100 feet away. Manufactured by Winston Electronics Ltd., Shepperton, Middlesex.

INDUSTRIAL NOTES

● As already announced, the Census of Production to be taken in 1956 in respect of the year 1955 will be a simplified census on a sample basis, similar to the censuses for 1952 and 1953. An order prescribing the matters about which returns may be required has now been made by the Board of Trade. Undertakings producing coal, gas, electricity, oil-shale, crude or refined petroleum or shale oil products are exempted from making Census of Production returns to the extent to which they supply the necessary information to the Minister of Fuel and Power (or in certain cases to the Secretary of State for Scotland). The order, which operated from December 31st, 1955, is the Census of Production (1956) (Returns and Exempted Persons) Order, 1955 (S.I. 1955, No. 1,592). Copies may be obtained from Her Majesty's Stationery Office, Kingsway, London, W.C.2, and branches, or through any bookseller (price 2d., by post 3½d.).

● Sir Bernard Keen, D.Sc.F.Inst.P., F.R.S., has been appointed Scientific Advisor to Baird & Tatlock (London) Ltd. Until recently he was Director of the East African Agriculture and Forestry Research Organisation.

● On 1st January, 1956, The British Rubber Development Board will be renamed The Natural Rubber Development Board. The alteration in title signifies no change in the Board's promotional activities.

● The Indian Industries Fair at New Delhi contains a British pavilion occupying 38,400 square feet, with exhibits by eighteen firms. One of the stands in this pavilion is the United Kingdom Trade Enquiry Bureau (i.e. a British Government stand). In addition, there is understood to be a considerable number of British firms exhibiting in the Indian section of the fair, mostly through their Indian subsidiaries.

● Cantie Switches Limited announce the appointment of Robert Garmany & Son Ltd., as their agents in Northern Ireland and Eire.

● Williams & Williams Ltd. announce the opening of a new Edinburgh Office at 45 Queen Street, Edinburgh. Telephone: Edinburgh 33951.

● The title of the Gas Division of Thomas De La Rue & Co. Ltd. has been changed to the Potterton Division.

● British Titan Products Co. Ltd. announce that their new London Office address is The Adelphi, John Adam Street, London, W.C.2. Telephone: Trafalgar 4451.

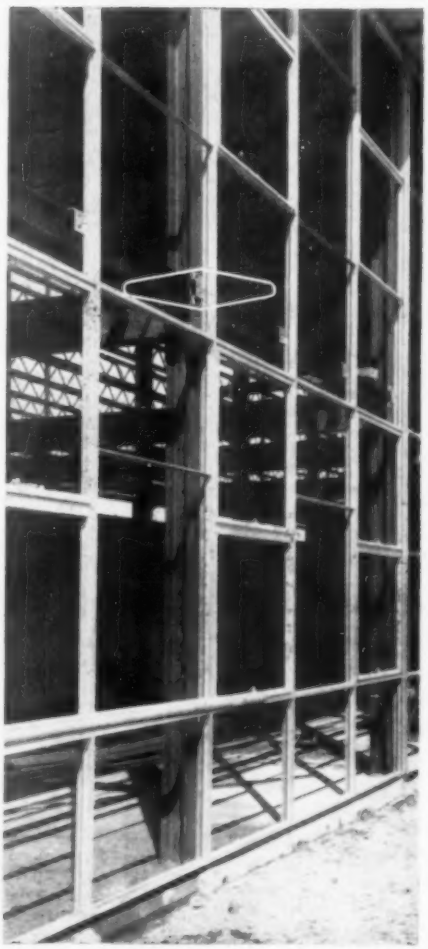
● The Annual General Meeting of the National Federation of Plastering Contractors took place at the Piccadilly Hotel, London, on Tuesday, November 29. At luncheon after the meeting the guest of honour was Mr. Harvey G. Frost, O.B.E., President of the N.F.B.T.E.

● During the last 15 months about one million square feet of Trofdek were manufactured and supplied in this country by the British Licensees, Messrs. H. Newsum, Sons & Co. Ltd., of Lincoln and Gainsborough. Trofdek will now be manufactured also in Canada and the United States.

CORRECTION

● In the issue of October 6, page 438, the lengths of "Prestik" builders' sealing strip for both $\frac{5}{16}$in dia. and flat strip 1¼in x ⅛in reels should read as 64ft.

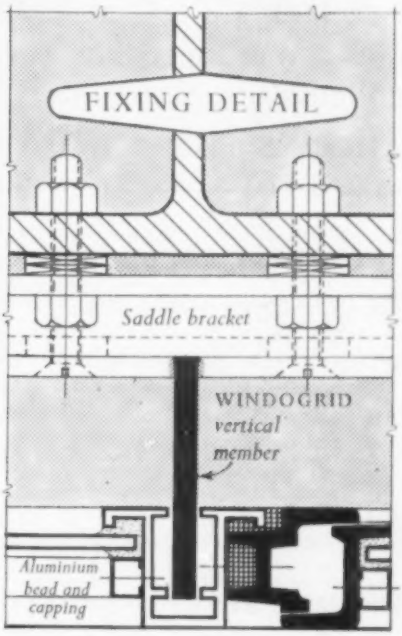
WINDOGRID
Curtain Walling



for Modular Design

Ease of Fixing and Glazing ☆

Minimum Maintenance ☆



Send for List 295

HENRY HOPE & SONS LTD

Smethwick, Birmingham & 17 Berners St., London, W.1

MEMBER OF THE METAL WINDOW ASSOCIATION

A low lintel and an openable stove are no longer incompatible now there's the PANDA

SPECIFICATION Vitreous enamel cast iron outer casing. Two side hinged fire doors with mica panels. Cast iron lining to firebox. Externally operated shaking bottom grate and removable front bar. Spinwheel air control. Mild steel ashpan. Operating tool.

COLOURS Cream mottle or black, Alisheen black, bramble, copper, bronze or green.

FLUE CONNECTION

Height to top of flue outlet	.. 15⅞ ins.
Outside diameter	.. 4¾ ins.

The design and construction of the Panda are to a very high standard. Accurate control over the rate of combustion is a feature which ensures fuel economy.

For further details of the Panda Stove write to the Housing Division of:—

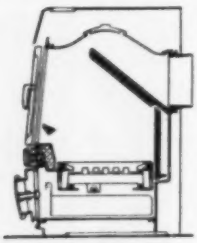
NOTES

Unusual and very attractive 'longways' shape is valuable in long, low fireplaces where a stove of conventional upright design would appear awkward.

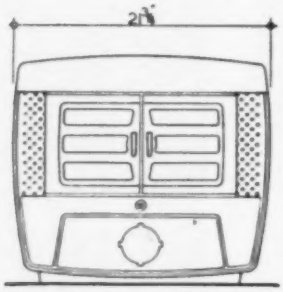
Side hinged fire doors fold back to give a good view of the fire.

Heats from 1,500 to 3,000 cu. ft. by convection and radiation.

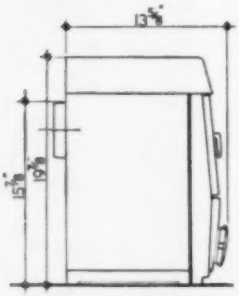
Burns continuously—for 10 hours without attention—on all domestic fuels including coke.



CROSS SECTION



FRONT ELEVATION



SIDE ELEVATION

DIMENSIONS

Width	.. 21¾ ins.
Height	.. 19⅞ ins.
Depth overall ..	.. 13⅝ ins.
Depth at hearth level	.. 11½ ins.

ALLIED IRONFOUNDERS LTD

Makers of cookers, boilers, fires, stoves and baths.

28 Brook Street, London, W.1

CURRENT MEASURED RATES (LONDON)

These apply to new work of normal character and some size. These rates are for time and materials only and carry 10 per cent in excess, so the appropriate essential on-costs should be added. The basis cost of material used in the calculation of these prices is taken from the foregoing tables which carried up to November, 1955.

(COPYRIGHT)

ESSENTIAL ON-COSTS

Fees payable to L.C.C. for District Surveyor:

For new buildings of ordinary construction exceeding 5,000 cubic feet, for every 1,000 feet or part of same up to 1,000,000 cubic feet 1/6, together with an additional sum of £1/10/– ..	£1/10/– *at* + 1/6
After which allow per 1,000 do.	at + 9*d*.
For alterations and additions:	
When £100 the sum of £2/10–, plus 12/6 for every £100 or part of same, up to £1,000 ..	£2/10/– *at* + 12/6 per 100
When over £1,000 the sum of £8/2/6, and for every £100 or part of same beyond 3/–	£8/2/6 *at* + 3/– per 100
Public buildings: Fees as above but plus 50% ..	+ 50%
Fees in respect of means of escape in case of fire are 1/5th of the above or £2 if greater or in the case of a one-storey building £1	1/5th
Steel framed or r.c. buildings double	+ 100%

Allowance to cover National Insurances, Holidays with Pay and Public Holidays, Welfare, Third Party Risk, Travelling and Guaranteed Week is made in the rates attached to the items.

Allow for Fire Insurance do.	1/6%
Allow for Water for use on the works and apparatus do.	6/6%
Allow for hoarding, or similar licences in City of London say £10	
Do. under Borough Councils per each month .. .. say	2/6
Allow for Office, Fire, Attendance on C. o W., etc. p. week say	£1

Supervision, etc., assessment Contract value	£4,000	£6,000	£12,000	£24,000	£50,000
Cost. of admin. ..	6%	5%	5%	4½%	4¼%
Agent or foreman (each)	5%	4¼%	3½%	2½%	1½%
Timekeeper or Watchman (each)	2½%	2½%	1½%	1%	½%

SPOT ITEMS AND DEMOLITION, ETC.	
Hoarding erected and removed	18/– Per foot run
Planked gangway with handrail, etc. do. ..	9/6
Proper gantry do.	70/–
Sleeper roadways	15/–
Needling, strutting and shoring including all labours and use and waste in erection and removal ..	18/– Per foot cube

ALTERATION-DEMOLITION—	1 Brick (Per	1½ Brick foot	2 Brick super)	Per yard cube
Cutting out cement concrete or brickwork in small quantities ..	1/3	2/4	3/2	57/–
Do. if either in very small quantities or reinforced	2/1	3/8	5/3½	84/–
Debris into baskets and removed from inside to outside of bldg. ..	3½*d*	7*d*	8½*d*	12/2

SCAFFOLDING (Avg. 45ft high) Per yard superficial	Period 1 month	3 months	5 months
Putlog type—4′ 6″ lift	5/6	7/6	9/7
Do. —6′ 0″ do.	4/1	5/8	7/3
Independent type—4′ 6″ lift ..	7/1	10/3	13/5
Do. —6′ 0″ do. ..	5/1	7/4	9/3

EXCAVATION Per Yard Cube. *By hand*	Common Soil	Loamy Clay	Gravel or Clay	Rock or similar
Reducing levels	5/7	6/9	7/11	53/–
Surface trench not exceeding 5ft deep	11/7	13/10	18/6	66/–
Do. from 5ft to 10ft ..	21/3	23/11	28/7	72/–
Do. from 10ft to 15ft ..	26/5	29/1	33/7	79/–
Fill in and ram	4/7	5/1	5/1	5/1
Barrowing 25 yds ..	2/8	2/11	2/11	3/4
Load vehicles and tip 8 miles away	15/–	15/–	15/10	16/6

PLANK AND STRUT To trenches, in normal ground	To 5ft deep	5 to 10ft deep	10 to 15ft deep
Per Foot Super	5½*d*.	6½*d*.	8*d*.

CONCRETE 1½in Ballast Aggregate	Per yard cube
1 : 3 : 6 Cement concrete in foundations ..	72/6
Do. around grillages	75/6

REINFORCED CONCRETE

1 : 2 : 4—¾in concrete, worked around reinforcement, between formwork in the following (at various levels):—

Foundations and surface beds	80/–	Per cubic
Walls, 12in thick or more	86/6	Yard

Sectional inches	Lintols and beams	Columns and casings		Braces and projections
Up to 36 ..	4/3	4/6	4/8	Per cubic ft
36 to 72 ..	4/–	4/4	4/1	do.
72 to 144 ..	3/10	3/11	4/1	do.
over 144 ..	3/8	3/10	4/–	do.
Walls 6in thick			16/4	Per super yd
Do. 9in thick			24/6	do.
Suspended floors average 6in thick ..			17/3	do.

REINFORCING RODS (round) bent and placed— Per cwt	¼in	⅜in	½in	⅝ to 1in
In floors and beams ..	79/–	72/–	67/–	61/–
In walls	84/6	76/6	70/9	64/–
In columns	90/–	81/–	74/6	67/–

FORMWORK and Supports (4 times use)— Floor soffits	Beams	Walls	Columns
18/3 per Yard	2/5	2/3	2/3 per super foot

BRICKWORK

BRICKWORK per YARD superficial reduced on ONE BRICK in thickness (scaffold to add)—	In 1 : 3 cement mortar
Flettons or other similar *at* 113/– per 1,000 ..	38/8
Mild Stocks or do., *at* 226/6 per 1,000 ..	52/4
Second Stocks or do., *at* 261/– per 1,000 ..	56/1
Southwater engineering or similar bricks, *at* 379/– per 1,000	72/5
Glue Staffordshire wire cut *at* 510/6 per 1,000 ..	86/3
Deduct if 1 : 1 : 6 Cement-Lime mortar is used in lieu of 1 : 3 Portland Cement mortar	2*d*
Add if brickwork commences above ground level	3/11
Do. if in backing to masonry including cutting and waste for bonding	3/–
Do. If circular-on-plan	7/1
Do. If in underpinning	7/1

BRICKWORK IN THICKNESS NOT REDUCED— Per yard superficial	Brick, on edge walls	Half-Brick walls	1 Brick finished fair both sides	11″ Hollow with 2″ cavity and G.I. tics
In Flettons or similar	16/7	21/2	39/2	44/9
In second stocks or do.	21/11	29/–	54/2	60/–
Add: for pointing as work proceeds, per side	1/7	1/9	1/7	1/7
Thickness to old walls, including cutting, toothing and bonding to same an average total thickness of ¾ brick ..		55/– Fletton	65/5 Stock	Per yard super
Do. all as last but an average total thickness of 1½ bricks ..		71/8	93/9	do.

WALLS BUILT IN SUPERIOR BRICKS— In 1 : 3 Cement mortar, fair faced and pointed on both sides as the work proceeds:—	Half-Brick	One Brick	
In first quality Stocks at 282/–	35/6	63/1	Per yard
In red facings at 310/–	35/3	63/–	super
In bluepressed facings at 562/–	55/8	97/–	do.

GENERAL AND SUNDRY—

Cut tooth and bond new brickwork to old ..			4/7 per ft
Damp proof course, double slate, horizontal ..			3/3 super
Do., as last, but vertical			4/– do.
Do., bitumen, Hessian base, do.			1/9 do.
Frames, bed and point in cement mortar, one side 4½*d* per ft run			
Window board of 6″ × 6″ × 1″ rounded on edge quarry tiles, bedded, pointed, cut and fitted ..			3/2 do.
Terra cotta air bricks built in and pointed, including flue ..	9″ × 6″ 5/3		9″ × 9″ 9/6 each
Chimney pots, plain red, set and flaunched in cement mortar	1ft high 13/6		2ft high 19/9 each
Metal windows, assembled, hoisted and fixed, lugs cut and pinned and frames bedded and pointed one side in cement mortar	Up to 5ft super 11/10	10ft to 20ft super 23/–	5ft to 10ft super 14/10 each 20ft to 40ft super 38/– each
Leaving holes through walls for pipes and afterwards making good	Small pipes 3*d* per in in depth		Large pipes 6*d* per in in depth
Cutting do., and afterwards do.	10*d* do.		1/8 do.
Cut mortices in brickwork or concrete for bolts or dowles and run in with cement grout	1/1½ per in in depth, each		
Holdfasts of stout iron hoop bent holed and screwed to frame and built in	1/3 each		

MEASURED RATES—*Continued*

BRICKWORK—*Continued*

FACING—

Extra only over common brickwork (113/– per 1,000) for facing with superior bricks in *Flemish bond* and pointing as the work proceeds.

Rustic Flettons (138/–)	3/9	per yard super
White (210/–)	9/9	do.
First Stocks (282/–)	15/–	do.
Reds (310/–)	16/6	do.
Blue pressed (562/–)	34/10	do.

If built in English bond, *Add* 12½% to above
If do. half-brick stretcher bond, *Less* 25% off above.

COPING—

All labour and material in forming brick-on-edge coping with two course of roofing tiles under and cement weather fillets on both sides, built in cement and pointed as the work proceeds.

Per foot run	9″ thick	14″ thick
In picked Flettons	6/3	8/5
In first quality Stocks	7/7	11/1
In red facings	7/5	10/11

Plumbing angles	2*d.* per foot run
Fair cutting	11½*d.* do.
Fair raking cutting	1/6½ do.
Fair circular cutting	1/6½ do.
Fair squint or birdsmouth	1/10½ do.

ARCHES

Extra over Fletton brickwork for forming window head with red facing bricks set on end and with 4½″ soffits and pointing	foot run 3/6
Do. for rubbed and gauged flat arch in red rubbers set in putty with fine joints	foot super 18/–

PARTITIONS

(over 100 Yards)	Per yard super— 2in	2½in	3in
Concrete slab partitions in cement mortar	10/6	11/11	13/11
Hollow clay do.	12/4	13/3	14/9
Cutting and bonding at angles, intersections and ends	5*d.* foot run		

PAVING	1in	1½in	1½in	
Grano trowelled gauge 5 : 2	8/–	9/–	10/–	yard super
1 × 5in skirting, square top and cove bottom			2/8	foot run
½in × 6in red quarry tile paving			28/–	yard super
½in × 6in do. skirting			1/10	foot run
Jointless flooring, ½in thick			20/–	yard super

ASPHALT (normal conditions and fair quantity)

½in pitch mastic floor in one coat on felt underlay on prepared concrete base	B.S. 1450/48	B.S. 1375/47 Brown Mastic	B.S. 1375/47 Red Natural Rock
Per yard super	12/6	13/2	15/–
	Unit	B.S.988	B.S.S. 1162/44
½in in two thicknesses on felt underlay on prepared concrete base	yard super	17/–	22/6
Ditto in narrow widths	foot super	2/6	3/6
½in skirting 6in high, angle fillet at bottom splayed and turned in at top	foot run	3/–	3/6
External angles	each	6*d.*	6*d.*
Internal *ditto*	each	10*d.*	10*d.*
Tanking or Damp Course		B.S.1097/43	B.S.1418/47
Vertical in two thicknesses	yard super	22/6	32/–
½in horizontal *ditto*	yard super	15/–	23/6
Vertical in three thicknesses	yard super	32/–	39/–
1½in horizontal *ditto*	yard super	21/–	30/6
Labour rounded external angle	per foot run	6*d.*	6*d.*
Ditto internal angle fillet	per foot run	10*d.*	11*d.*
Ditto double *ditto*	per foot run	1/8	1/8
Collars to small pipes	each	3/6	4/–
Ditto to large pipes	each	6/6	8/–

DRAINAGE

Excavate trench, and plank and strut to sides, consolidate bottom to fall, return fill and ram earth after drain is laid and load and remove surplus. In ordinary ground—moderately firm

Per lineal yard	
1 foot in depth	4/4
2 do.	7/6
3 do.	17/8
4 do.	23/7
5 do.	29/4
6 do.	39/6
7 do.	48/–
8 do.	61/–
9 do.	71/–
10 do.	86/9
11 do.	98/5
12 do.	111/–

Portland cement (1 : 6) concrete bed under drain pipes and benching up on both sides—6in thick	Per yard run 4in 18in wide	6in 20in wide	9in 23in wide
	5/7	6/6	8/1½

SALT GLAZED SANITARY DRAIN PIPES
and lay and joint with Yarn and Cement Mortar in trench.

Quality	Quantity	Per foot run 4in	6in	9in
"Best"	2 Tons or more	3/1	4/3	7/2
	over 100 pieces	3/4	4/9	8/–
	under 100 ditto	3/5	4/10	8/4
"Best Tested"	2 Tons or more	3/9½	4/11	9/–
	over 100 pieces	4/3	6/3	10/4
	under 100 ditto	4/4	6/6	10/8
"British Standard"	2 Tons or more	3/3	4/10	7/7
	over 100 pieces	3/8	5/5	8/7
	under 100 ditto	3/9	5/8	9/4
"British Standard Tested"	2 Tons or more	4/–	6/–	9/9
	over 100 pieces	4/7	6/11	11/2
	under 100 ditto	4/10	7/2	11/10
Extra for bends "Best"—Contained in 2 Ton lots.		4/2	6/3	16/6
Extra for junction "Best"—4in on 4in, 6in on 6in—9in on 9in	ditto	6/6	9/9	27/–

IRON DRAIN PIPES—

	Per foot run 4in	6in
Heavy cast iron socketed and laying and jointing in molten lead—		
In main runs	12/–	16/3
In branches	13/4	18/3
	each	
Extra over last for bends and extra joint	36/–	71/4
Do. on do. for junctions and extra joint	48/2	89/7
Cast iron gulley with 10½in inlet and 4in outlet, composed of hooper and trap, and 9in extension piece and 10½in grating, and jointing all together, and jointing to drain and surrounding in concrete	162/–	—
Do. rain water, shoe with vertical inlet and inspection cover, and joint up and embed	84/2	128/–

MANHOLE SUNDRIES—		4in	6in
Salt glazed straight half-round main channels	each	5/–	7/–
Do. curved	do.	10/6	15/–
Do. three-quarter section splayed channel bends (Barrons or similar)	do.	14/3	20/8
Heavy manhole steps galvanized	do.	9/9	—
Fix only manhole covers	do.	11/–	—
4in Mica flap, brass faced, f.a.i. valves and fix with molten lead joint	do.	38/6	—

ROOFER

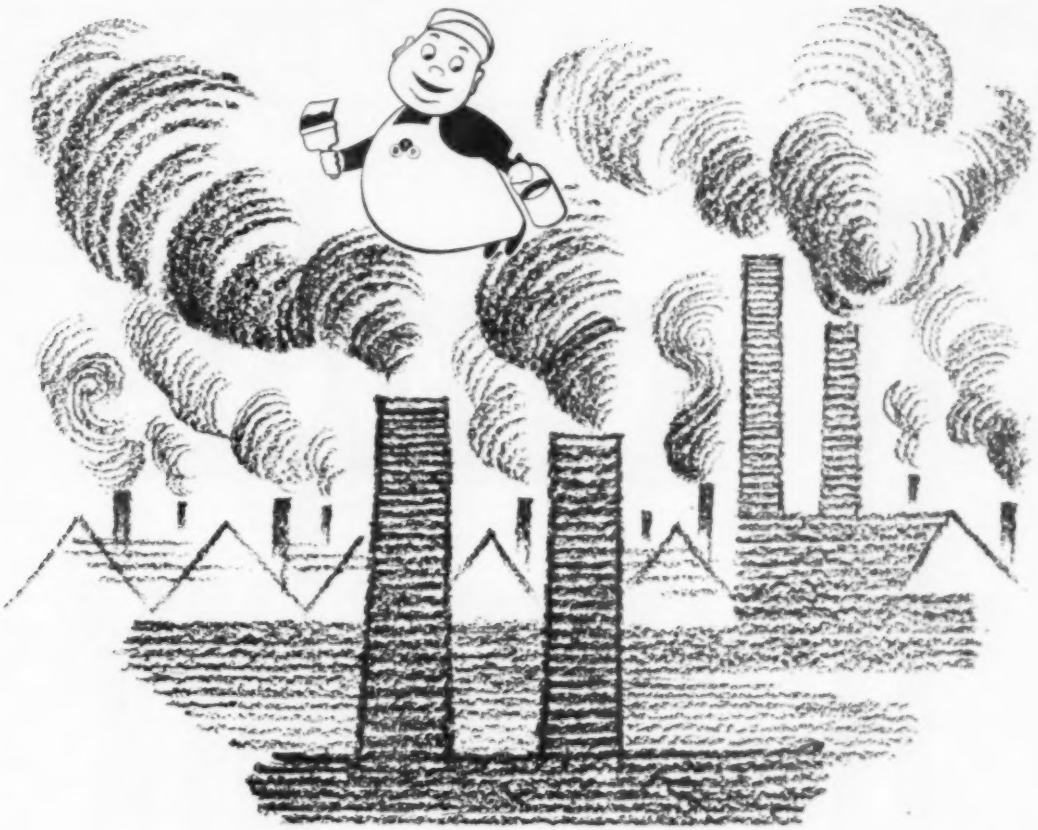
CORRUGATED ASBESTOS SHEETS

P.C. 6/8½ per super yard, including side and end laps and fixing to wood	135/6 per square
Eaves filler pieces	1/9 foot run
Adjustable ridge	3/4 do.
Barge boards	2/8 do.
Plain roofing tiles, machine made, sand faced, 4in gauge nailed every 4th course with 1½in galvanized nails, to battens (measured separately)	250/– do.
Extra over last for top edge or abutment cutting	1/3 do.
Do. for double course at eaves	2/5 do.
Do. for verges, undercloak, bed and point	3/6 do.
Do. Valley tiles including cutting and waste on both sides	11/– do.
Do. Bonnet hips and do. bed and point	11/6 do.
Half-round ridge and bed and point	3/3 do.
Fixing soakers	1/6 dozen

Bituminous felt roofing in two layers, laid breaking joint and bedded with hot mastic and finished with fine dry grit	11/– yard
Do. but in one layer only	8/– super

WELSH SLATING	Per square 16″ × 10″	18″ × 10″	20″ × 10″
3in lap, 2 zinc nails to each slate	297/–	303/–	354/–

Additional labours	Per foot lineal— 1/6	1/8	1/10
At tops, verges and abutments—straight	1/6	1/8	1/10
Do. —raking	2/3	2/6	2/9
At hips and valleys (each side)	2/3	2/6	2/9
At eaves, double course	3/–	3/3	3/8
Do. to falls	4/6	4/10	5/6



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MEASURED RATES—*Continued*

FLOORS AND FLATS

Hollow tile in situ or precast units hoisted, bedded and fixed—

Superimposed load in lb per foot super	Span 12 feet	Span 16 feet
50 ..	45/–	51/1
Per yard super 100 ..	46/9	54/–
150 ..	50/6	57/6

20lb has been allowed to cover dead load in surface, finish.
Fair edge to slabs .. .. 9*d.* per foot run
Splay cutting and waste .. .. .. 1/9 do.

CARPENTER AND JOINER

SOFTWOOD CARCASSING—

	per foot cube— Plates	Joists	Rafters	Trusses
Labour, materials, waste nails, hoisting and fixing	18/9	20/–	21/6	24/–

FLOORING—

Per square—	¾in	1in	1¼in
Rough boarding	131/–	161/–	198/–
Softwood batten flooring, straight joints, splayed headings	132/7	162/6	200/–
Do. grooved and tongued	162/–	192/6	237/–

SKIRTING—

Per foot superficial—	½in	¾in	1in
Wrot softwood moulded skirting with grounds and backings plugged ..	3/6	4/1	4/8

Mitres to do. .. 3*d.* per sectional inch
Fitted ends .. 2*d.* do.

SASHES, fanlights, casements, borrowed lights, etc.—

Per foot super—	Without bars	With bars (2ft sup. in each square)
2in softwood rebated, moulded and fixed	3/–	5/3
Add if fitted with beads	6*d.*	1/6
Add if hanging on butts	2/3 each	

WINDOWS, hung on lines—

Softwood cased frames, 1in inner and outer linings, 1¼in pulley stiles, 2in sashes, oak sill ..

Per foot super	Overall size of frames— 6ft	21ft	32ft	44ft
Windows as described ..	17/7	9/8	7/6	5/10
Add if sashes in squares, about 2 feet super in each ..	—	1/6	2/–	1/11
Extra for hanging sashes with lines, weights and axle pulleys ..	each 30/6	50/–	62/–	84/–

FINISHINGS TO OPENINGS—

Per foot super—	¾in	1in	1¼in	1½in
Softwood linings, tongued at angles and tongued to frame including grounds and backings	3/5	3/11	4/9	5/4
Add if crosstongued	6*d.*	6*d.*	6*d.*	6*d.*
Softwood wrot rounded on front edge and with tongue at back window board including groove in sill and bearers	3/4	3/9	4/8	5/2
Add for ends to last notched, returned and rounded	1/1	1/2	1/3	1/4

Per foot run—	Sectional area in inches— 1	2	3	4	5	6
Softwood wrot and fixed in bearers, backings, grounds, fillets, and similar	3½*d.*	6*d.*	8½*d.*	11*d.*	1/1½	1/3½
Add if in short lengths ..	2*d.*	2*d.*	2½*d.*	2½*d.*	3*d.*	3*d.*
,, if plugged to brickwork	4*d.*	4*d.*	4*d.*	4*d.*	4*d.*	4*d.*
,, if framed as in legs and bearers	3*d.*	3*d.*	4*d.*	4*d.*	6*d.*	6*d.*
,, if rebated or grooved or beaded	½*d.*	½*d.*	½*d.*	½*d.*	½*d.*	½*d.*
,, if chamfered or rounded edges				1½*d.*		
,, if moulded in architraves, capping, etc.				3*d.*		

DOOR FRAMES—

Per sectional inch—	Per foot run— 6in	8in	10in	12in	13½in
Softwood, wrot, rebated, rounded framed and fixed ..	2/1	2/5	2/11½	3/3½	3/6

DOORS—Per foot super

2in Softwood square framed and flat panels, both sides, on butts ..	Number of panels— 1 5/6	2 6/6	3 7/–	4 7/9	5 8/–	6 8/9
1½in do.	4/8	5/6	6/–	6/7	6/10	7/4
Add for each side moulded	4*d.*	5*d.*	6*d.*	7*d.*	8*d.*	9*d.*
Add for do. flush panelled	8*d.*	8*d.*	8*d.*	6*d.*	7*d.*	7*d.*

per foot super—	¾in	1in	1¼in	1½in
In shelves, table tops, wrot and fixed	2/4	2/7	3/–	3/6
Do. in divisions and ends framed ..	2/7	2/10	3/3	3/11
Add if crosstongued	6*d.*	6*d.*	6*d.*	6*d.*
Add if buttoned	6*d.*	6*d.*	6*d.*	6*d.*

SUNDRIES—Per foot run ..

	In short lengths	In long lengths	Add for cups and screws
Glazing, beads mitred around and fixed with brads	6*d.*	4*d.*	2*d.*
Rounded heel or hollow ..		4*d.*	
Tongued and grooved angle ..		6*d.*	
Glue blocking		6*d.*	
Mitres	3*d.*	per sectional inch.	
Fitted ends	2*d.*	do.	

STAIRCASE—

	Per ft Super
1¼in Softwood treads with moulded nosings. 1in risers tongued both edges and glued, blocked and bracketed on and including two fir framed carriages	5/3
Do. but in winders	6/6
1¼in crosstongued landing on framed carriages	5/3
2in moulded string	5/–
2in do. ramped	11/6
Ends framed to newel	9/6 each
Tongued and mitred angles	5/3 do.
Tongued heading joints	5/3 do.
Ends of treads and risers housed to string ..	3/6 do.
Extra for curtail ends to steps, glued up and veneered riser and solid blocking	100/– do.

Balusters about 2ft 9in long, square and framed each end .. .. each	1in 3/8	1¼in 4/4	1½in 4/11
3½in × 3½in square newel, framed ..	4/– per foot run		
African mahogany moulded 3in × 2in hand-rail. (Joints below)		8/9 do.	
Do. ramped 18in girth (do.)		52/– each	
Do. wreathed do. (do.)		155/– each	
Joint or framed ends		11/– each	

FIXING ONLY IRONMONGERY

	To deal	To hardwood
Barrel bolts	1/8	2/6 each
Flush bolts	4/–	4/10 do.
Sash fasteners	3/2	2/10 do.
Rim locks and furniture	5/4	6/9 do.
Mortice locks and do.	10/9	16/9 do.
Cupboard locks	2/9	3/5 do.
Casement fasteners	2/3	2/9 do.
Do. stays	2/3	2/9 do.
Grip handles	2/7	3/5 do.
Spring catches	2/3	2/9 do.
Cabin hooks	1/10	2/5 do.
Floor springs including oil	46/–	58/– do.
Overhead springs	13/8	16/– do.
Springhinges	10/9	13/– do.

SMITH AND FOUNDER

Basis framed steel joists and hoist and fix	69/– per cwt.
Do. but in compound girders ..	79/– do.
Do. but in stanchions	80/– do.
Trusses	110/– do.
Additional cost per cwt. over basic sections for following R.S.J.s 9in × 7in, 10in × 8in, 12in × 8in, 14in × 8in, 16in × 8in, 18in × 6in, 18in × 7in, 20in × 6½in, 20in × 7½in	7*d.* per cwt.
22in × 7in, 1/1 cwt. 4in × 3in	1/8 do.
5in × 3in, 5in × 2½in	2/– do.
6in × 3in, 24in × 7½in	2/3 do.
3in × 3in, 2/9 cwt. 4¾in × 1¾in ..	3/7 do.
3in × 1½in	3/11 do.
Cleats, brackets, packing pieces, etc., in connections, including rivets and bolts	154/– do.
Forged straps	112/– do.
Wrot iron balustrade	150/– do.

RAINWATER GOODS—

Round cast-iron pipe with socketed joints caulked with red lead and tow and fixing with pipe nails and gas barrel distance pieces to plugs in brickwork	Per foot lineal 2in 3/11	3in 4/4	4in 5/6½
Extra for shoes .. .. .. each	5/3	6/8	9/7
Do. junctions .. .. do.	7/11	10/1	14/7
Do. bends .. .. .. do.	6/2	7/11	10/2

RAINWATER GUTTERS Per foot run—	4in	5in	6in
Half round CI gutters jointed in red lead and bolted and fixed on iron brackets	3/7	4/4	5/4
Ogee do. All as last	4/1	4/9	5/11
Extra for stop ends	3/2	3/10	4/5
Do. angles or outlets	5/4	6/9	8/–

MEASURED RATES—*Continued*

PLUMBER

EXTERNAL—		Soakers	Flats	Flashings
4lb Milled Sheet lead per cwt		182/–	217/–	226/–

LEAD PIPES : running joints, etc.

Per foot run		½in	¾in	1in	1¼in	1½in	2in
Main	Fixed	5/1	7/5	10/1	12/11	16/6	22/4
Service	with	4/8	6/6	8/5	10/5	13/2	17/10
Waste	hooks	3/2	4/5	5/9	7/–	9/3	11/8
Bends	each	—	—	—	1/9	3/–	8/–
Solder joints	,,	8/2	10/–	11/11	13/8	16/–	21/–
Union and joints	,,	12/10	16/5	18/6	24/6	—	—
Stop valve and *ditto*	,,	28/11	37/7	51/10	80/9	—	—
Bib valve and *ditto*	,,	20/8	28/–	—	—	—	—
Ball valve and *ditto*	,,	22/6	31/7	49/5	71/11	—	—
Sleeve and *ditto*	,,	—	—	—	—	21/3	28/9

COPPER TUBES

	½in	¾in	1in	1¼in	1½in	2in
Tubes per foot run ..	2/11	3/9	5/1	6/4	7/4	10/7
Couplings : straight each	3/3	4/2	6/2	8/–	10/3	13/10
Do. Bends each ..	6/6	7/10	11/–	15/–	22/4	30/10
Do. Tees each ..	7/8	8/11	12/11	17/10	24/–	33/8
Do. Cisterns each ..	4/4	5/9	7/6	9/8	13/4	17/6
Stop cocks each ..	24/4	35/4	63/–	104/6	159/–	240/–

BLACK TUBING (Class C) fixed with pipe brackets

	½in	¾in	1in	1¼in	1½in	2in
Tubes, per foot run ..	1/9	2/1	2/7	3/3	3/10	5/1
Bends and fix, each ..	3/10	4/7	5/7	7/3	8/2	12/8
Tees and *ditto*	4/–	4/9	5/9	7/5	9/–	13/4
Fire bends	1/5	1/9	1/10	2/1	2/9	4/10

Coated iron (M) weight L.C.C. soil and waste fixed with nails and distance pieces and molten lead joints	2in	4in	
.. ..	5/2	7/5	foot run
Extra only for bends and joint	14/2	22/8	each
Do. junctions and joints	15/8	28/4	do.
Do. cleaning doors	15/–	16/4	do.
Domical wire guards	2/6	2/9	do.

PLASTERER—

			yard super
Lime and hair	¾"	Render and set	6/4
Do.	½"	Ditto float and set	8/–
Sirapite	¼"	Skimming coat	3/10
Do.	½"	Render and set	7/8
Do.	¾"	Render, float and ditto ..	9/6
Portland	½"	Backing coat	4/4
Do.	¼"	Plain face	7/8
Do.	¾"	Floor screed	4/8
Keenes	¼"	Skimming coat	5/–
Dubbing	½"	Thick or less	2/2
Metal Lathing	¾"	mesh × 24 Gauge	6/2

6" × 6" × ¼" Earthenware Plain Glazed Tiles, in fair quantity, white, and setting (on prepared screed) .. 40/–
Rounded edge. Extra over last .. 4*d.* per foot run
Angles in ditto .. .. .. 4*d.* each
Cutting and fitting. Around pipes or clips 1/– ditto
Narrow widths. 3" to 6" wide. Add 75% to plain surface.
Ditto. 6" to 12" ditto. Add 40% to plain surface.
Sundry labours per foot lineal :—
Quirk 2½*d.* Arris 3½*d.* Fair edge 2½*d.* Rounded edge 4*d.*
Flush bead 1/6.
Mouldings—5*d.* per inch girth.
Jointing new plastering to old 3*d.*

POLISHING

	Sashwork	
NEW WORK—	Foot super	Foot run
Staining, bodying-in and French Polish	2/8	1/8
Staining and wax polishing on hardwood	1/2	9*d.*
OLD WORK—		
Cleaning down old work and repolish	1/1	—
Stripping, preparing and repolishing ..	2/11	2/–

INTERNAL PAINTING

With white lead base in common colours, with brushes.

	Knot stop and prime	Prime and paint once	Prime and paint twice	Add for each extra coat	
ON WOOD —					
General surfaces	2/4	4/9	6/11	1/11	Yard super
Running lengths not exceeding 3" wide	3½*d.*	7*d.*	9½*d.*	2¾*d.*	Yard run
Do. 3" to 6" wide	5*d.*	9½*d.*	1/2	4*d.*	do.
Do. 6" to 9" wide	7½*d.*	1/2½	1/10	6½*d.*	do.
Do. 9" to 12" wide	9½*d.*	1/6½	2/3½	7½*d.*	do.
Sash square each side	4/5	8/9	13/–	3/9	per doz.
Do. in large squares	6/–	12/3	18/–	5/3	do.
Opening edges ..	7*d.*	1/2	1/9	7*d.*	each
Casement frames each side ..	4¾*d.*	8¾*d.*	1/–	3*d.*	Yard run
Mullions or transoms, do	6½*d.*	11½*d.*	1/3	4½*d.*	do.

ON PLASTER—	One coat	Two coats	Three coats		
Paint on surfaces	2/9	5/2	7/–	Per Yard super	
Do. on mouldings ..	3/2	5/9	7/8	do.	
Do. on enrichment ..	4/11	9/1	11/10	do.	
ON STEEL—					
Paint on structural steel ..	2/1	4/–	5/8	do.	
Do. on roof trusses ..	3/6	6/10	9/4	do.	
Do. on metal windows measured over all on both sides, divided into squares	3/3	5/6	7/9	do.	
Do. divided into large squares	2/9	4/9	6/3	do.	
Do. divided into extra large squares	2/4	3/11	5/3	do.	
Do. on opening edges ..	10*d.*	1/6	2/–	each	
Do. on rain water pipe ..	10*d.*	1/7	2/1	Yard run	
Do. on do. gutter ..	1/3	2/8	3/7	do.	
Do. on small pipe ..	3*d.*	6*d.*	10*d.*	do.	

GLAZING (to New Work)

Polished Plate Glass ordinary substance (about ⅛in), glazing quality, in the following sizes, glazed complete—Per foot super

In plates not exceeding	2 feet	super in each ..	5/5½	
Do.	5	do. ..	6/3½	
Do. (unless extra sizes)	45 feet	do. ..	7/1	
Do. (unless extra sizes)	100 feet	do. ..	7/4	

Add extra price for glazing with screw beads or clips 5*d.* per foot super.
Do. if glazing bedded in washleather or velvet 9*d.* per foot run

SHEET GLASS, glazed, complete, per foot super, in new work: Ordinary quality clear, glazed to wood with putty :—

24 oz as described		1/3½
26oz do.		1/6½
32 oz do.		1/10½
⅛ figured rolled and Cathedral, glazed to wood with putty	Per foot super	1/4½
Do. in standard tints	do.	2/0½
No. 4 Fluted, glazed do.	do.	2/0½
⅛in Reeded (narrow, board, etc.) do.	do.	1/9
Reedlyte do.	do.	1/9
Spotlyte do.	do.	1/9
⅛in Rough cast do.	do.	1/9
⅛in Do. wired do.	do.	1/10
⅛in Georgian Rough Cast do. ..	do.	1/10½

Add for glazing all as before but to steel to similar work as above, 1½*d.* per superficial foot.

PAINTER AND DECORATOR

DISTEMPERING—In common colours, put on with brushes—ON PREPARED SURFACE.

per yard super—	1 coat (finish)	2 coats (undercoat and finish)	*Add* if required for Sealing coat	Stippling
Ordinary distemper on flat surface of plaster	8½*d.*	1/4	6*d.*	3*d.*
Washable do. on do. of plaster	11½*d.*	1/9	6*d.*	3*d.*
Add if in margins, narrow widths or panels	30%	30%	20%	50%
Add if on mouldings ..	50%	50%	45%	—
Add if on enrichments ..	160%	160%	115%	—

PAPERHANGING

Hanging only—	Per Piece—Lining	Pattern
On walls	6/10	8/2
On stairs	9/4	10/10
On ceilings	8/2	9/7

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G

See-

HOW THE SCENE CHANGES

Garage with conventional lighting. Note the confusion of beams, pipes, trunking, wiring and light fittings.

The same garage after modernising with a LUMENATED CEILING.

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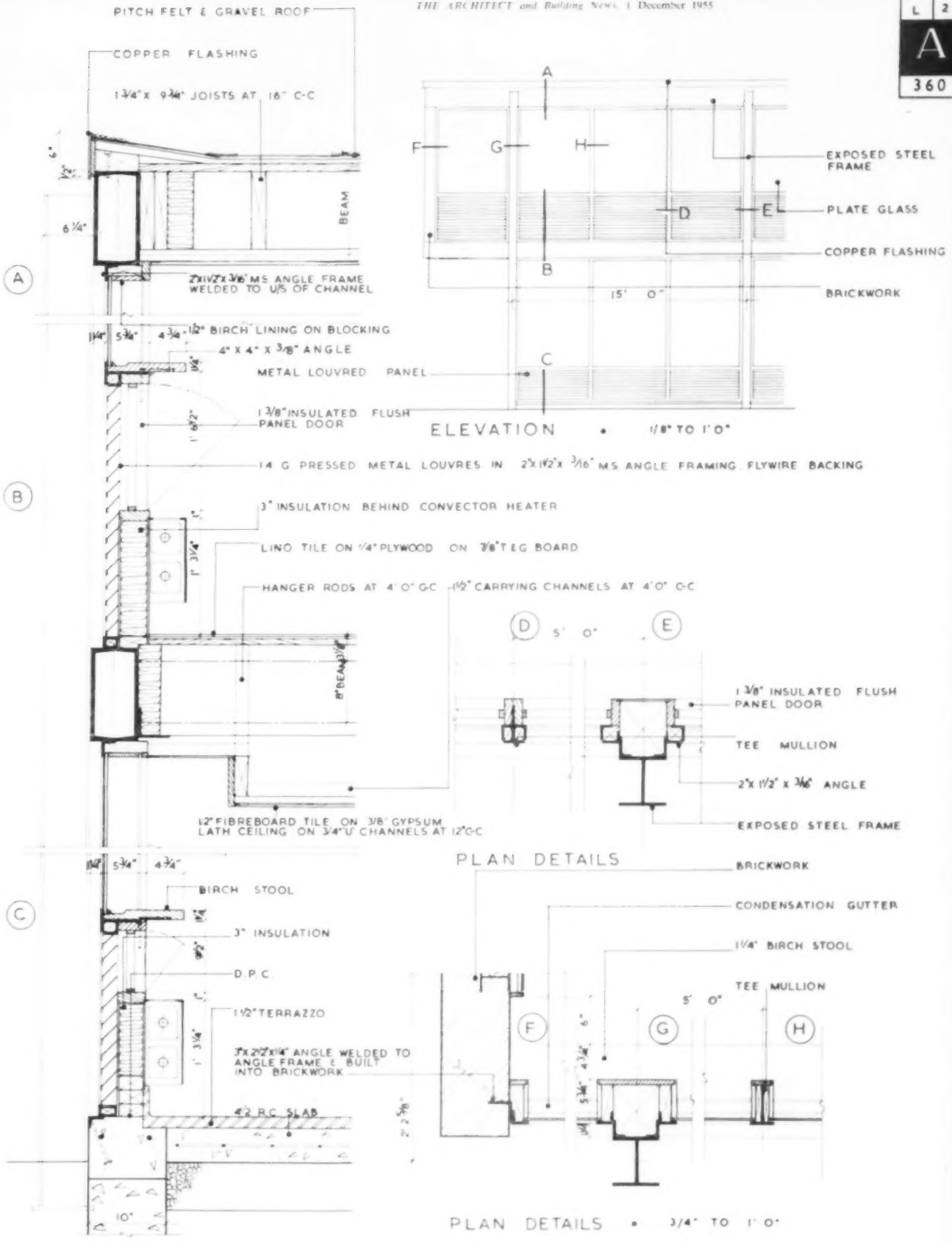
PITCH FELT & GRAVEL ROOF
COPPER FLASHING
1 3/4" x 9 3/4" JOISTS AT 16" C-C
6"
1/2"
6 1/4"
BEAM
A
2"x1 1/2"x 3/16" M.S. ANGLE FRAME WELDED TO U/S OF CHANNEL
1 1/4"
5 3/4"
4 3/4"
1/2" BIRCH LINING ON BLOCKING
4" X 4" X 3/8" ANGLE
3/4"
METAL LOUVRED PANEL
1 3/8" INSULATED FLUSH PANEL DOOR
1' 6 1/2"
B
14 G. PRESSED METAL LOUVRES IN 2"x1 1/2"x 3/16" M.S. ANGLE FRAMING FLYWIRE BACKING
3" INSULATION BEHIND CONVECTOR HEATER
1" 3 1/4"
LINO TILE ON 1/4" PLYWOOD ON 3/8" T.&G. BOARD
HANGER RODS AT 4' 0" G.C. 1 1/2" CARRYING CHANNELS AT 4' 0" G-C
8" BEAM
12" FIBREBOARD TILE ON 3/8" GYPSUM LATH CEILING ON 3/4" "U" CHANNELS AT 12" G-C
C
1 1/4"
5 3/4"
4 3/4"
BIRCH STOOL
3/4"
3" INSULATION
6 1/2"
D.P.C.
1" 3 1/4"
1 1/2" TERRAZZO
3"x 2 1/2"x 1/4" ANGLE WELDED TO ANGLE FRAME & BUILT INTO BRICKWORK
4" R.C. SLAB
10"
SECTION • 3/4" TO 1' 0"
A
F
G
H
B
D
E
C
EXPOSED STEEL FRAME
PLATE GLASS
COPPER FLASHING
BRICKWORK
15' 0"
ELEVATION • 1/8" TO 1' 0"
D 5' 0" E
1 3/8" INSULATED FLUSH PANEL DOOR
TEE MULLION
2"x 1 1/2" x 3/16" ANGLE
EXPOSED STEEL FRAME
PLAN DETAILS
BRICKWORK
CONDENSATION GUTTER
1 1/4" BIRCH STOOL
TEE MULLION
5' 0"
F
G
H
6"
3/4"
4 3/4"
5 3/4"
2" 2 5/8"
PLAN DETAILS • 3/4" TO 1' 0"

WALL DETAIL

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OPEN

*Notes below give basic data of contracts open under locality and authority which are in bold type. References indicate: (a) type of work, (b) address for application. Where no town is stated in the address it is the same as the locality given in the heading, (c) deposit, (d) last date of application. (e) last date and time for submission of tenders. Full details of contracts marked * are given in the advertisement section.*

BUILDING

BARNSTAPLE B.C. (a) Erection of two pairs of shops and maisonnettes over at the Crossland Estate. (b) Borough Surveyor, The Castle. (c) 2gns. (e) December 12.

BEDFORDSHIRE EDUCATION COMMITTEE. (a) Erection of (1) block of six shops and maisonnettes at Abbots Wood Road, (2) block of six shops and maisonnettes, and two blocks of flats at The Crossway, Farley Hill Estate, also 20 garages. (b) Borough Engineer, Town Hall, Luton. (c) 2gns each contract. (e) December 31.

BOSTON B.C. (a) Erection of four shops with two overhead flats, and four houses in Shaw Road. (b) Borough Engineer, Municipal Buildings. (c) 2gns. (e) December 12.

BRADFORD C.C. (a) Erection and completion of seven houses at Lofthouse, near Pateley Bridge. (b) Waterworks Engineer, 50 Darley Street. (c) 2gns. (e) December 17.

BROMSGROVE U.C. (a) Erection of temporary public conveniences at Parkside. (b) Council's Engineer, Council House. (c) 2gns. (e) December 7.

CAERNARVONSHIRE C.C. (a) Erection of a single bay fire station at Abersoch. (b) County Architect, County Offices. (c) 2gns, by cheque. (e) December 19.

CARLISLE C.C. (a) Erection of Pennine Way Infants' School. (b) City Surveyor, 18 Fisher Street. (e) December 22.

CREWE CO-OPERATIVE SOCIETY LTD. (a) Erection of proposed engineering workshop in Henry Street. (b) Architect's Department, Co-operative Wholesale Society, Ltd., 1 Balloon Street, Manchester, 4. (d) As soon as possible.

CUMBERLAND C.C. (a) (1) Erection of an egg stores at Cumberland and Westmorland Farm School, Newton Rigg, near Penrith, (2) erection of police station and garage, and nurses' house with surgery, waiting room and 2 garages at Langwathby, near Penrith, and (3) erection of club room for handicapped persons at Vulcan's Park, Workington. (b) John H. Haughan, 15 Portland Square, Carlisle. (e) (1) December 6, (2) December 15 and (3) December 21.

DORKING AND HORLEY R.C. (a) Conversion of an outbuilding at the Council Offices, Horley, into a civil defence headquarters. (b) Council's Engineer, Council Offices, Massetts Road, Horley. (e) December 28.

EIRE—DUBLIN. (a) Erection of a new low-grade unit at Stewart's Hospital, Palmerstown. (b) Noel Speidel, 3 Clare Street. (c) £25. (e) December 14.

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ESHER U.C. (a) Contract No. 199—Erection of (1) 18 flats in Central Avenue, West Molesey, (2) 18 flats at Northfield Farm Estate, (3) 15 flats at Canada Road Estate, Cobham and (4) 9 flats at Golf Course Estate, West Molesey. (b) Council's Engineer, Council Offices, Esher. (c) 2gns for (1) and (2) and 1gn each for (3) and (4), or 4gns for all four sites. (d) December 3.

FARNHAM U.C. (a) Repair and alteration to the Rangers House, Farnham Park. (b) Messrs. Gilbert and Hobson, 69a Castle Street. (c) £2. (e) December 14.

FLINTSHIRE C.C. (a) Erection of a new assembly hall and adaptations at Sealand Primary School. (b) County Architect, Llwynegrin, Mold. (c) 1gn. (e) December 12.

FLINTSHIRE C.C. (a) Carrying out the alterations and adaptation of "Coleg Clwyd" home for the aged, Rhyl. (b) County Architect, Llwynegrin, Mold. (c) 1 gn. (e) December 12.

GRIMSBY CORPORATION. (a) Erection of branch library in St. Giles' Avenue, Scarthoe, with all ancillary works. (b) Borough Engineer, Municipal Offices, Town Hall Square. (c) £2. (e) December 13.

GRIMSBY B.C. (a) Erection of science and nautical blocks at College of Further Education, Nuns Corner, second phase. (b) Borough Engineer, Municipal Offices, Town Hall. (c) £5. (d) December 3.

GRIMSBY R.C. (a) Erection of 10 houses, type H1, at Grimes Green Estate, Waltham. (b) L. P. Bradshaw, 1 Deansgate Terrace. (c) 2gns. (e) December 10.

HAMPSHIRE C.C. (a) Erection of a fire station at Fordingbridge. (b) County Architect, The Castle, Winchester. (c) 1gn. by cheque, payable to County Treasurer. (d) December 19.

HENLEY-ON-THAMES B.C. (a) Erection of 10 houses in pairs and one block of four, 18 houses in pairs and two blocks of four and 10 garages and concrete aprons, on the Abraham's Estate. (b) Eric G. V. Hives, 3 Cork Street, Reading. (c) 2gns. (e) December 16.

HERNE BAY U.C. (a) Erection of a block of six flats in Sea Street. (b) Council's Engineer, Council Offices. (c) 2gns. (e) December 17.

KENILWORTH U.C. (a) Erection of 40 houses on the Dalehouse Lane site. (b) Council's Surveyor, The Council House. (e) December 12.

LANCASHIRE C.C. (a) (1) Erection of additional classroom, cloakroom, and lavatory block at Penwortham Junior and Infants' School, (2) erection of one pair of police houses at Darwen, St. Albans Road. (b) County Architect, P.O. Box No. 26, County Hall, Preston, quote ref. A/MG. (d) December 6.

LEICESTERSHIRE AND RUTLAND POLICE AUTHORITY. (a) Alterations and additions to County Police Headquarters. (b) County Architect, 123 London Road. (c) 2gns. (e) January 9.

LEWES B.C. (a) Erection of an extension to the Town Hall. (b) Borough Engineer, Council Offices, Fisher Street. (c) 2gns. (d) December 3.

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LISKEARD. (a) Erection of a bungalow at Upton Hall, Upton Cross, for E. J. Hoare. (b) Higman and Ford, 2 The Parade. (e) December 10.

LONDON—ACTION B.C. (a) Erection of a single-storey store and workshop at Acton Park, The Vale, W.3. (b) Borough Engineer, Town Hall, W.3.

LONDON—BARNES B.C. (a) Alteration works and additions to complete three lock-up shop premises at Mortlake High Street (Nos. 66, 68 and 70). (b) Borough Engineer, Municipal Offices, Sheen Lane, S.W.14. (e) December 17.

LONDON—WANDSWORTH B.C. (a) Erection of (1) 3-storey block of 6 flats at Charlwood Road, Putney, and (2) a terrace of 3 houses at Abbeville Road, Clapham. (b) Town Clerk, Municipal Buildings, S.W.18, giving particulars of experience, plant and technical and supervisory staff available, together with the names of two financial and two technical referees. (d) December 9.

LONDON—WOOD GREEN B.C. (a) Erection of 18 flats at Albert Close. (b) Borough Engineer, Town Hall, N.22. (c) 2gns. (e) January 4.

LOWESTOFT B.C. (a) Erection of 40 houses at The Beeches Estate, Normanston Drive. (b) Borough Engineer, 49 High Street. (c) 2gns. (e) December 16.

MID-WALES POLICE AUTHORITY. (a) Erection of two police houses and outbuildings, together with external works and services, on a site at Lower Canal Road, Newtown. (b) Clerk of the Authority. (e) December 12.

MID-WALES POLICE AUTHORITY. (a) Erection of a police inspector's residence at Kilcluan, Brecon. (b) County Architect, Rhyd Offices, Brecon. (d) December 5.

MID-WALES POLICE AUTHORITY. (a) Erection of a police constable's residence at Llwynon, Penderyn. (b) County Architect, Rhyd Offices, Brecon. (d) December 5.

MONMOUTHSHIRE C.C. (a) Erection of a new fire station at Cefu Forest, Pengam, Mon. (b) County Architect, Queen's Hill, Newport. (c) 5gns. (e) December 13.

NORFOLK C.C. (a) Extensions and alterations to the Fire Station, Norwich Road, Thetford, and the construction of an exercise yard. (b) County Architect, 27 Thrope Road, Norwich. (d) December 5.

N. IRELAND—ANTRIM EDUCATION COMMITTEE. (a) Erection of proposed new primary school at Upper Ballyboley, near Ballyclare. (b) Messrs. McCarthy and Lilburn, Scottish Provident Buildings, Belfast (c) 5gns. (e) December 17.

N. IRELAND — ANTRIM EDUCATION COMMITTEE. (a) Carrying out proposed additions and alterations to Eden Primary School, Carrickfergus. (b) Messrs. McCarthy and Lilburn, Scottish Provident Buildings, Belfast. (c) 3gns. (e) December 17.

N. IRELAND — ANTRIM EDUCATION COMMITTEE. (a) Erection of proposed extension to Largymore Primary School, Lisburn. (b) McCarthy and Lilburn, Scottish Provident Buildings, Belfast. (c) 3gns. (e) December 16.

N. IRELAND — BELFAST. (a) Erection and completion of a warehouse and shops at Clifton Street, for Messrs. T. Harpur and Sons Ltd. (b) F. H. Wright and Partners, 79 Botanic Avenue. (c) 3gns. (e) December 9.

N. IRELAND — BELFAST C.C. (a) Erection of a workers' dining block at the City Cemetery. (b) City Surveyor, Architectural Section (Room 53), City Hall. (e) December 14.

N. IRELAND—DOWN EDUCATION COMMITTEE. (a) Erection of a new intermediate school and meals kitchen at Dromore, Co. Down. (b) Messrs. W. H. Stephens and Sons, 13 Donegall Square North, Belfast. (c) 5gns. (e) December 15.

N. IRELAND—DOWNPATRICK. (a) Erection and completion of St. Patrick's Girls' intermediate school at Downpatrick for the Board of Governors. (b) W. H. McEvoy, Ulster Bank Chambers, 73 May Street, Belfast. (c) 5gns, by cheque. (e) December 19.

N. IRELAND—FERMANAGH JOINT ABATTOIR COMMITTEE. (a) Erection of a new abattoir at Drumclay, Enniskillen. (b) W. H. Stephens and Sons, 13 Donegall Square North, Belfast. (c) 5gns. (e) January 9.

N. IRELAND—HILLSBOROUGH R.C. (a) Erection of 52 houses and ancillary works at Breda Road, Newtownbreda, Co. Down. (b) W. B. Maxwell, 5 University Terrace, Belfast. (c) 5gns. (e) December 13.

NORTH RIDING EDUCATION COMMITTEE. (a) Erection of a new modern school at Redcar. (b) F. Barraclough, County Hall, Northallerton, or Denis Clarke Hall, 6 Masons Yard, Duke Street, St. James's, S.W.1. (e) December 30.

PEMBROKESHIRE C.C. (a) Erection of proposed new secondary school at Crymmych. (b) County Architect, County Offices, Haverfordwest. (c) 2gns. (d) December 5.

PETERBOROUGH JOINT EDUCATION BOARD. (a) Erection of proposed Eastholm School for Girls at Eastfield Estate. Approx. value £140,000. (b) Names and particulars to be submitted on a form obtainable from L. H. Robjohn, Education Offices, Town Hall. (c) 5gns. (d) December 5. (e) January 30.

PONTEFRACT B.C. (a) Erection of 10 houses in five pairs at Monument Lane, Chequerfield Estate. (b) Borough Engineer, Municipal Offices. (e) December 17.

PORTSMOUTH C.C. (a) Erection of (1) 50 houses at West Leigh, Site 5, (2) 35 flats and maisonnettes at St. James's Road and (3) classrooms at Northern Grammar School. (b) City Architect, 1 Western Parade. (c) £1 each contract. (d) December 9.

SALFORD C.C. (a) Erection of a public weighbridge office and pit at Windsor. (b) City Engineer, Town Hall. (c) 2 gns. (e) December 15.

SANDBACH. (a) Carrying out extensive alterations and additions at Sandbach School, for the Governors of the School Foundation. (b) John R. Price, Middlewich Road. (c) 5gns. (e) December 10.

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SCOTLAND — FORFAR ROYAL BURGH COUNCIL. (a) Erection of 12 blocks of 101 houses at Gallowshade. (b) Town Clerk, Municipal Buildings. (c) £1 for each trade. (d) December 3.

SCOTLAND—GLASGOW CORPORATION. (a) Several works in connection with the erection of (1) 40 flats at Castlem'lk (Unit No. 3 Area K 3), Tormusk Road, and (2) 32 flats at (Unit No. 3 Area Y 3), Ardencraig Road. (b) Architectural and Planning Department, 20 Trongate, Glasgow, C.1. (e) December 15.

PLACED

*Notes on contracts placed state locality and authority in bold type with (1) type of work, (2) site, (3) name of contractor and address, (4) amount of tender or estimate. * denotes that work may not start pending final acceptance, or obtaining of licence, or modification of tenders, etc.*

CRAWLEY DEVELOPMENT CORPORATION. (1) 673 houses, 113 flats, 103 garages. (2) Tilgate. (3) Carlton Contractors Ltd., Lingfield Crescent, Rochester Way, Eltham, S.E.9. (4) £1,373,000. (1) 63 shops, etc. (2) Queen's Square. (3) Peak Construction Co. Ltd., Strood, Rochester. (4) £509,174.

OXFORD. (1) Block of buildings. (2) Nuffield College. (3) Benfield and Loxley Ltd., 106 Bullingdon Road, Oxford. (4) £200,000.

WOLVERHAMPTON CORPORATION. (1) 232 flats and houses. (2) Dale Street. (3) A. F. R. Godfrey and Co. Ltd., 46 Waterloo Road, Wolverhampton.

ISLINGTON B.C. (1) 80 dwellings. (2) Tufnel Park. (3) W. J. Simms, Sons and Cooke Ltd., 78 Mount Street, London, W.1. (4) £198,630.

LONDON COUNTY COUNCIL. (1) Superstructure of North Block. (2) County Hall. (3) Gee, Walker and Slater Ltd., 100 Park Lane, London, W.1. (4) £659,331.

WARWICKSHIRE C.C. (1) Three-storey extensions to County Offices. (2) Warwick. (3) Foster and Dicksee Ltd., James's Street, Rugby. (4) £124,751.

ENFIELD B.C. (1) 128 houses, 18 flats. (2) Manor Farm Estate. (3) Townsend and Collins Ltd., Enfield. (4) £223,365.

KENSINGTON, S.W.7. (1) Large block of offices on Tattersall's site. (2) The Green, Knightsbridge. (3) Sir Robert McAlpine and Sons Ltd., 80 Park Lane, London, W.1.

LONDON COUNTY COUNCIL. (1) Block of maisonnettes and block of old people's homes. (2) Minerva Estate, Bethnal Green. (3) Stewart and Partners Ltd., 105, Baker Street, London, W.1. (4) £146,890.

BICESTER B.C. (1) 124 houses. (2) King's End. (3) C. Bryant and Son Ltd., Bicester and Birmingham.

LONDON, S.E.1. (1) Rebuilding Morley College. (2) Westminster Bridge Road. (3) C. Miskin and Son Ltd., Romeland, St. Albans. (4) £180,000.

HUDDERSFIELD B.C. (1) Secondary school. (2) Salendine Nook. (3) James Miller and Partners Ltd., George Street, Edinburgh. (4) £256,230.

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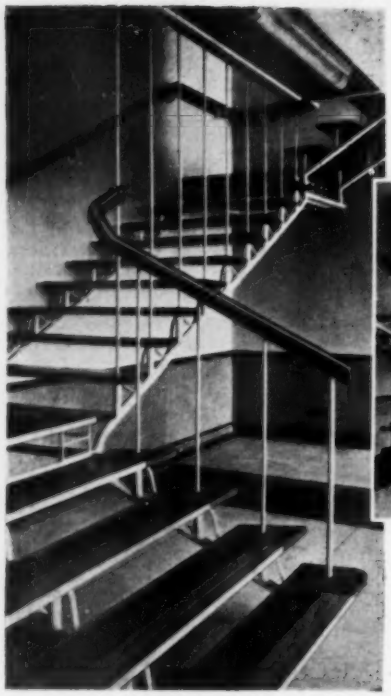

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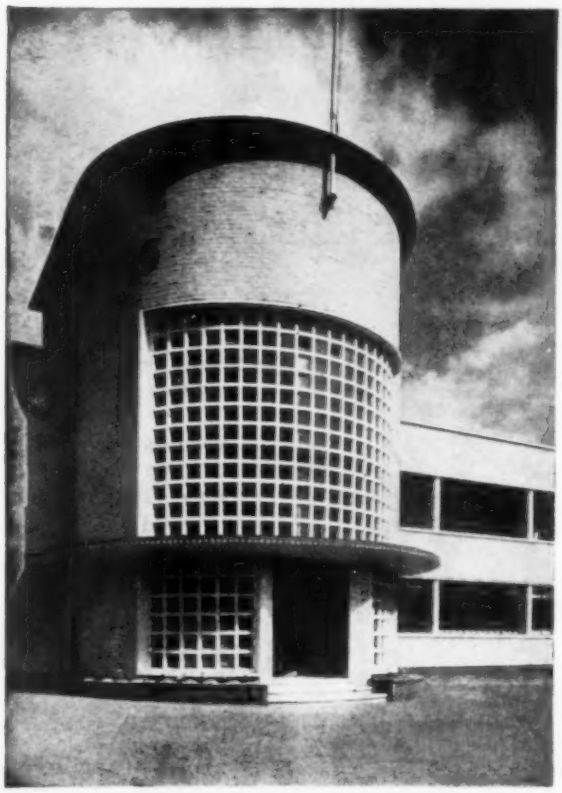

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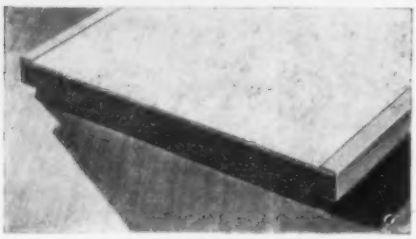

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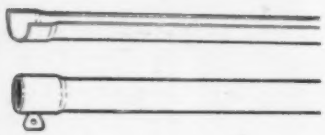

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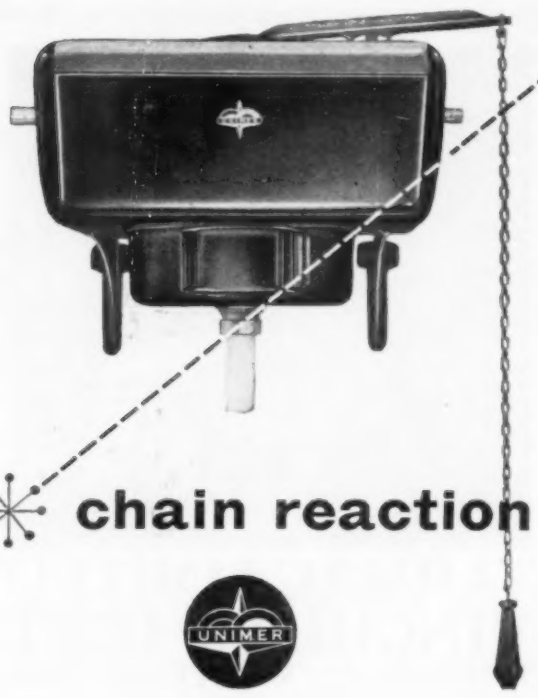

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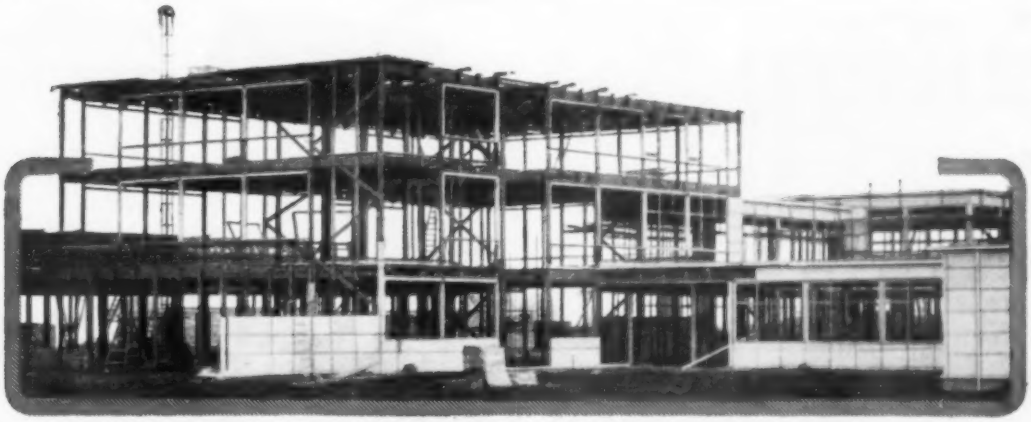

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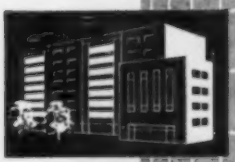

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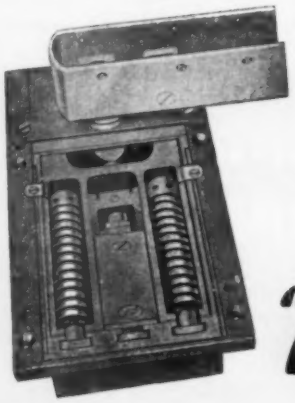

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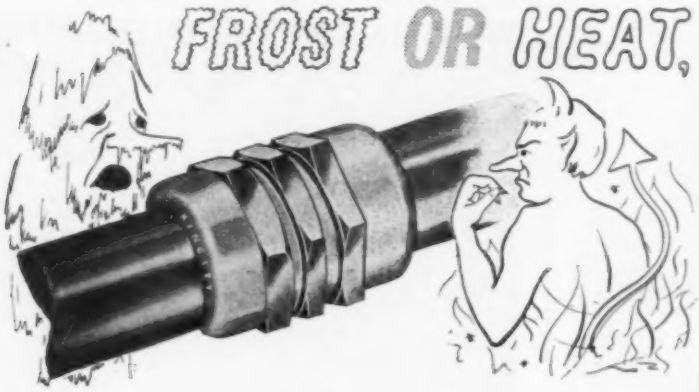

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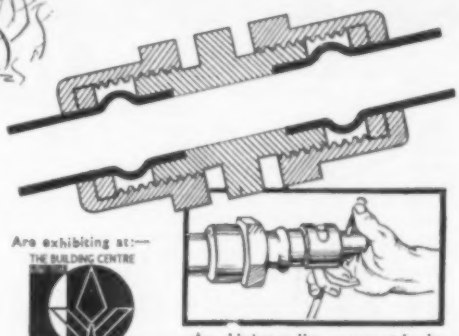

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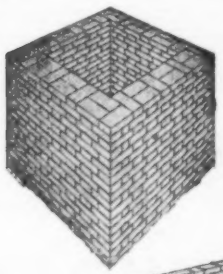

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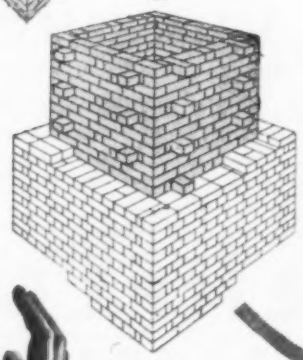

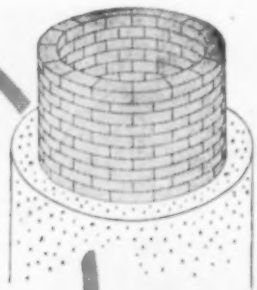

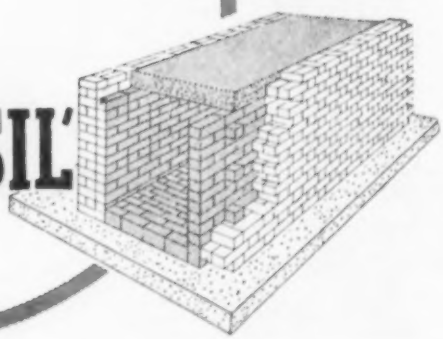

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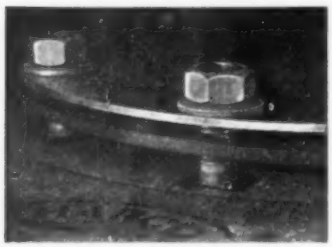

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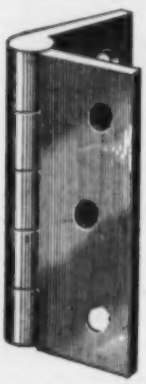

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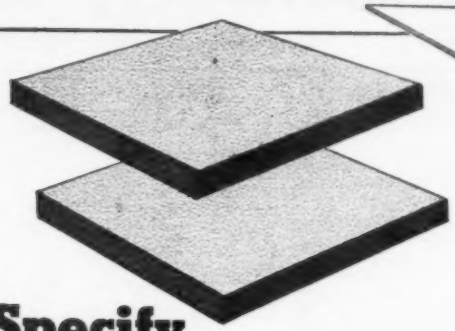

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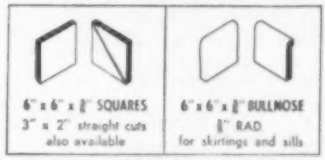

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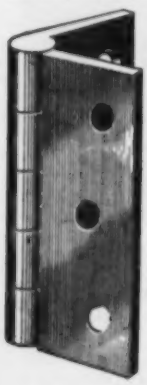

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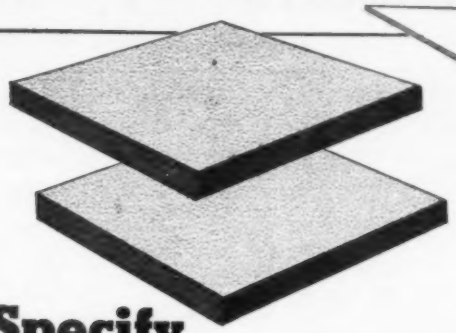

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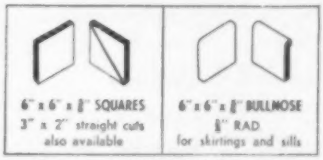

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APPOINTMENTS

The engagement of persons answering these advertisements must be made through the local office of the Ministry of Labour and National Service, etc., if the applicant is a man aged 18-64 or a woman aged 18-59 inclusive, unless he or she or the employer is excepted from the provisions of The Notification of Vacancies Order, 1952.

STATES OF JERSEY

CIVIL SERVICE BOARD

VACANCIES exist in the Engineer's Department of the States of Jersey for two qualified architectural assistants on a temporary basis. Applicants must hold Associate Membership of the R.I.B.A., or equivalent qualification, and have had at least two years' general office experience. Salary £700, rising to £800.

Applications, giving full details of qualifications and experience, together with copies of two recent testimonials, should reach the Greffier of the States, States' Greffe, Jersey C.I. not later than 14th December, 1955. [1780

COUNTY BOROUGH OF EAST HAM

CHIEF QUANTITY SURVEYOR —
Grade V £570 - £900

QUANTITY SURVEYOR — Grade II £560 - £640

LONDON Weighting is paid in addition. Salary in excess of the minima may be paid according to qualifications and experience.

Subsistence allowances may be granted over a reasonable period to the persons appointed if unable to obtain suitable housing accommodation, necessitating the maintenance of two homes.

Further details and application forms, returnable by December 16, 1955, from the Town Clerk, Town Hall, East Ham, E.6. [1788

LEYTON COMMITTEE FOR EDUCATION (IN THE COUNTY OF ESSEX)

APPOINTMENT OF ARCHITECTURAL ASSISTANT

APPLICATIONS are invited for the permanent appointment of an Architectural Assistant, A.P.T. Grade III, £630-£744 per annum, including London Weighting (£10) which is reduced according to scale where the age is less than 26. The successful applicant will be employed by the Essex County Council and will work in the School Architect's Section of the Borough Engineer and Surveyor's Department, Town Hall, Leyton, E.10.

Alternate Saturday mornings free of duty and canteen facilities available.

Details and form of application from the Borough Education Officer, Kirkdale Road Leytonstone E.11, to whom they should be returned by THURSDAY, 15th DECEMBER, 1955.

D. J. OSBORNE,
Town Clerk.

Town Hall,
Leyton, E.10. [1781

COUNTY BOROUGH OF WEST HAM

BOROUGH ARCHITECT AND PLANNING OFFICER'S DEPARTMENT

THERE are vacancies on the permanent staff for:—

(a) SENIOR ASSISTANT ARCHITECTS — V (£750-£900);
(b) SENIOR ASSISTANT ARCHITECTS — IV (£675-£825);
(c) ARCHITECTURAL ASSISTANT — I/II (£590-£640);
(d) CHIEF ASSISTANT, PLANNING — VII (£900-£1,100);
(e) SENIOR ASSISTANT, PLANNING — IV (£675-£825); ;
(f) PLANNING ASSISTANT—I/II (£500-£640).

London Allowance in addition.

Posts (a) and (b) applicants should be A.R.I.B.A., or Registered Architect; (c) Inter R.I.B.A. standard with office experience; (d) must be A.M.T.P.I. and additional qualification—A.R.I.B.A. or A.R.I.C.S.—an advantage. Responsible for Planning Administration generally. Experience in redevanning of blitzed or obsolete urban areas required; (e) Architect/Planner; (f) experienced in general planning work.

Application forms and details from Borough Architect and Planning Officer, Thomas E. North, O.B.E., F.R.I.B.A., Dist.T.P., M.T.P.I., 70 West Ham Lane, Stratford, E.15. Returnable by Tuesday, 20th December, 1955. [1803

APPOINTMENTS—contd.

CAMBRIDGESHIRE COUNTY COUNCIL

COUNTY ARCHITECT'S DEPARTMENT

APPLICATIONS are invited for the following appointments:—

(a) One Quantity Surveyor, Grade VI
£825/35/£1,000
(b) Two Quantity Surveyors, Grade V
£750/30/£900
(c) Two Assistant Quantity Surveyors, Grade II
£560/20/£640

For appointments (a) and (b) applicants should be thoroughly experienced in the preparation of estimates, Bill's of Quantities, Specifications and settlement of final accounts, and should be Associate Members of the R.I.C.S., and for—

(c) Applicants should have had experience in Abstracting, Billing and site measurement. Preference will be given to applicants who have passed the intermediate stage of the R.I.C.S.

TWO ARCHITECTURAL ASSISTANTS.
Grade III, £600/25/£725

Applicants should be registered Architects, and preference will be given to Members of the R.I.B.A. They should have experience in the design of public buildings, housing and modern schools, building construction, the preparation of specifications and site supervision.

The appointments are subject to the Local Government Superannuation Acts 1937 to 1953, the National Scheme of Conditions of Service, a satisfactory medical examination, and termination by one month's notice on either side.

Applications, stating age, present salary, present and previous appointments, details of training and experience, together with one recent testimonial and the names and addresses of two referees, should be submitted to the undersigned not later than Thursday, December 8, 1955.

CHARLES PHYTHIAN,
Clerk of the County Council.

Shire Hall,
Cambridge.
November 15, 1955. [1772

PADDINGTON BOROUGH COUNCIL

REQUIRE QUANTITY SURVEYOR'S ASSISTANT (A.P.T. II £590 to £670 p.a.). Candidates should have experience in preparation of estimates, working up, abstracting, billing, site measurement and work up to final account stage. Preference to candidates being holders of, or at standard of, Inter R.I.C.S. (Quantities sub-Division). Applications, stating age, qualifications, experience, present and past appointments, names and addresses of three referees, should be sent to the undersigned (quoting A.257) by December 16, 1955.

W. H. BENTLEY,
Town Clerk.

Town Hall,
Paddington Green, W.2. [1794

ASSISTANT CHIEF ARCHITECT required by the Atomic Energy Research Establishment, Harwell, Berkshire, in the new Works Group. To be responsible to the Chief Architect for duties which will include organisation, co-ordination and control of architectural and engineering activities in the design of buildings, some highly specialised; negotiation of contracts; assignment of priorities; formulation of building and building development policy and the furtherance of new techniques; the supervision of professional and sub-professional staff.

Salary range £1,700 to £2,200 p.a. Contributory superannuation scheme. Requests for application form on a POSTCARD to the Establishment Officer, A.E.R.E., Harwell, Didcot, Berks, quoting 454. [1793

NORTH THAMES GAS BOARD

AN ARCHITECTURAL ASSISTANT is required in the Drawing Office of the Chief Engineer's Department, Westminster.

Applicants should be passed the R.I.B.A. Final Examination, should be capable of preparing working drawings and specifications, and supervising the work on contracts. Experience in design and planning of industrial buildings would be an advantage.

Starting salary, depending on age and qualifications, will be within the range £730-£830 per annum, and the successful candidate will be required to join the Staff Pension Scheme.

Applications to the Staff Controller, North Thames Gas Board, 30 Kensington Church Street, W.8, quoting references 666/278. [1801

APPOINTMENTS—contd.

LONDON COUNTY COUNCIL

ARCHITECT'S DEPARTMENT

VACANCIES for ARCHITECTURAL ASSISTANTS (salary up to £783) in HISTORIC BUILDINGS SECTION. Duties include the preparation of drawings in connection with the restoration and maintenance of buildings of architectural and historic interest owned by the Council. Inter R.I.B.A. or equivalent required.

Particulars and application form, returnable by December 15, from Architect (AR/EK/AAHB/4), County Hall, S.E.1. (1948). [1792

HAMPSHIRE

APPLICATIONS are invited for three posts as Assistant Architects, Grade IV (£675 - £825) in the County Architect's Department. Candidates must be Registered Architects, preferably A.R.I.B.A., with good general experience in the design and construction of Public Buildings.

The appointments are pensionable and subject to satisfactory medical reports. In approved cases the County Council are prepared to assist in meeting removal and other expenses. Applications, on forms obtainable from the County Architect, The Castle, Winchester, should reach him by December 14. [1789

Manchester

COLLEGE OF TECHNOLOGY
(Faculty of Technology in the University of Manchester.)

Appointment of
LECTURER IN BUILDING

THE Governing Body invites applications for a Lectureship in Building in the College of Technology with the title and status of Lecturer in the University of Manchester.

Candidates should be graduates of a British University and either Associates of The Royal Institute of British Architects or Professional Associates of The Royal Institution of Chartered Surveyors with good professional experience.

Salary: £650 per annum, rising by annual increments of £50 to £1,350 per annum. Commencing salary according to qualifications. Superannuation under the F.S.S.U., and family allowances.

Conditions of appointment and form of application may be obtained from The Registrar, College of Technology, Manchester, 1. The last day for the receipt of applications is Monday, January 9th, 1956.

B. V. BOWDEN,
Principal of the College. [1799

WELSH REGIONAL HOSPITAL BOARD

APPLICATIONS are invited for two Architectural Assistant posts on the permanent Staff of the Regional Architect (at present at Maesycoed Road, Pontcanna, Cardiff, but shortly removing to City Centre) at a salary of £480 at age 21 x £20(?) x £30(?) — £670 per annum. The Board may at its discretion fix the starting salary above the minimum of the scale by allowing one increment for each year of appropriate practical experience since obtaining the appropriate qualifications but any additional increments granted will not be more than the number of years by which the applicants age exceeds 21 and the starting salary does not exceed £560.

Applicants should have obtained the Intermediate Examination of the R.I.B.A. Experience in hospital design desirable but not essential. The work involved will be of a varied and interesting nature and the successful applicants will be expected to carry out surveys, sketch plans, working drawings and details together with preparation of specifications.

Applications, stating age, experience, qualifications, present position and salary together with names and addresses of two referees, should be sent to the Secretary, Welsh Regional Hospital Board, Cathays Park, Cardiff, immediately. [1797

MINISTRY OF WORKS require ARCHITECTURAL ASSISTANTS for drawing offices in London, Edinburgh and various provincial offices, with at least 3 years' training, experience in an architect's office and of Inter R.I.B.A. standard. London salary £463 to £725 p.a., elsewhere slightly less. Starting pay according to age and experience, prospects of promotion and permanency. State age, details of training and experience, to Chief Architect, Ministry of Works, A 27 (O), Abell House, John Islip Street, London, S.W.1. [1618

APPOINTMENTS—contd.

CITY OF BIRMINGHAM

CITY ARCHITECT'S DEPARTMENT

APPLICATIONS are invited for the appointment of Assistant Principal Architect in the Housing Design Section, which is responsible for a large housing programme for suburban and central redevelopment areas, including multi-storey flats of both traditional and new-traditional constructions, garages and large shopping centres.

The appointment will be within Grade A.P.T. VII (£900/£1,100 per annum) at a commencing salary according to experience.

Applicants must be Associate Members of the R.I.B.A., or hold an equivalent qualifications, and should have an extensive knowledge and experience of design, administration, and organisation of housing schemes.

The post is permanent, superannuable, subject to a medical examination, and to one month's notice on either side.

Applications, endorsed with the heading of the post, stating age, present position and salary, qualifications and experience, together with the names of two persons to whom reference can be made, should reach the undersigned not later than 17th December, 1955.

Canvassing disqualifies.

A. G. SHEPPARD FIDLER,
City Architect

Civic Centre,
BIRMINGHAM, 1.

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VACANCIES exist in the design organisation employed in the development of a rapidly expanding factory at Wilton Works, situated in the North Riding of Yorkshire four miles from the coastal town of Redcar.

Appointments are to permanent staff with Pension Fund, Profit Sharing Scheme, 5-day working week and excellent Company recreational facilities.

Candidates should have the appropriate National Certificate and previous design office experience.

Reasonable out of pocket expenses will be refunded to applicants invited for interview and after joining the staff, married men will receive a reasonable refund of removal (including travel) expenses; to assist house purchase, facilities are available in approved cases for loans; in addition, legal charges may be advanced.

Write for application form to: Staff Manager, Imperial Chemical Industries Limited, Wilton Works, Middlesbrough, quoting advertisement reference ICI/X270/e. [1790

ARCHITECTURAL APPOINTMENTS VACANT

ARCHITECTS' Co-partnership require qualified assistant with experience.—Write 44, Charlotte Street, London, W.1., or telephone Langham 5791. [0002

ARCHITECTS Co-partnership require unmarried, qualified, experienced assistant in their Lagos office. Maximum tour 14 months. Flat provided.—Write 44, Charlotte Street, London, W.1., or telephone Langham 5791. [0001

BUSY London Office requires 2 Architectural Assistants, approximately Intermediate standard or upwards. Also requires one Assistant with considerable perspective experience, particularly able to do quick interior colour sketches. 5-day week, good salaries.—Lewis Solomon, Son & Joseph, 21 Bloomsbury Way, W.C.1., HOL 5108 or 7082. [0004

ARCHITECTURAL ASSISTANT of R.I.B.A. Intermediate standard required in Architect's department of Estate Developers in the outer London South-Eastern area, engaged on private residential development, shops, etc. Salary in accordance with experience. — Write stating age, experience and salary required to Box 7760, c/o A. & B. N. [1770

TWO JUNIOR ASSISTANTS required with about two years drawing office experience to work on modernisation programme. Travelling is entailed. Canteen facilities. Salary according to ability.—Apply by letter, giving full details, to Mac Fisheries Ltd., Architects' Department, Little Trinity Lane, E.C.4., reference MG/BT/D. [1771

ARCHITECTURAL ASSISTANT required in N.W. London area with minimum qualification of Intermediate R.I.B.A. Preference will be given to applicants having some experience in the design of industrial buildings and housing. Salary between £500 and £800 p.a., according to qualifications and experience.—Write Box AC 14071, Samson Clarks, 57-61, Mortimer Street, W.1. [1776

ESTIMATOR and Quantity Surveyor required for Works Engineer's Department, able to assist in the preparation of estimates for general factory building works and preferably with a knowledge of factory services and plant installations.—Apply stating full details of age, experience and approximate salary expected to Reference EQS, Personnel Manager, Armstrong Siddeley Motors, Parkside, Coventry. [1783

ARCHITECTURAL APPOINTMENTS VACANT—contd.

ARCHITECTS. Progressive Midlands firm have vacancies for one senior and two junior Assistants, either individually or as a group. Good class practice, varied and interesting. Educational, Industrial and Ecclesiastical work. Highest references essential for these positions having excellent prospects. R.C. preferred but not essential. Apply with full particulars, age, training, experience, salary, etc., prior to personal interview to:—Box No. 541, Mundy, Gilbert and Troman, 86 New Street, Birmingham, 2. [1761

ST. THOMAS' HOSPITAL, LONDON, S.E.1.

DRAUGHTSMAN for Works Dept. Plans of new buildings and maintenance work, specifications and quantities. Commencing salary at 21 or over £380 p.a. rising to £570 p.a., plus London Weighting. — Apply Personnel Officer. [1795

BASIL Ward requires an Architectural Assistant between Intermediate and Final Standard, preferably with not less than one year's office experience. Salary to be agreed.—Apply 32 Wigmore Street, London, W.1., or telephone WELbeck 1409. [0005

ARCHITECTURAL Assistants, approaching Intermediate stage, required. Up to £500 p.a. Senior Assistants also required. — D. Paskett Marshall, F.R.I.B.A., 59 Gordon Square, W.C.1. MUS. 7277. [1800

AIR MINISTRY works Designs Branch requires in London and Provinces (with liability for overseas service) ARCHITECTURAL ASSISTANTS experienced in planning/preparation of working drawings and details for permanent and semi-permanent buildings. Salaries up to £850 (men) and £736 p.a. (women). Starting pay dependent on age, quals. and experience. Paid overtime. Long term possibilities with promotion and pensionable prospects. 4 weeks' leave a year. Natural born British subjects. — Write stating age, quals., employment details including type of work done to any Employment Exchange, quoting Order No. Borough 2303. [1754

HENING & CHITTY, F.R.I.B.A., have vacancies to run important job; Job Leader (£1,000 to £1,200). Architects (£750 to £900); also juniors.—Write with full particulars to 20 Gower Street, W.C.1. [1758

ARCHITECTURAL ASSISTANCE required for interesting and varied work with small but expanding firm in rural area of North Essex. — Box No. 7690, c/o A. & B. N. [1759

APPLICATIONS are invited for the following posts in connection with the erection and completion of the multi-storey office building known as Bucklersbury House, City:—

(a) Senior Assistant Architect.
(b) Junior Assistant Architect.
(c) Services Engineering Assistant.
(d) Engineering Clerk of Works.

Good salaries offered to successful applicants, according to technical ability.

Applicants for posts (c) and (d) will be employed initially on the co-ordination of specialists' drawings.

Write or telephone for appointment to:—
CAMPBELL JONES & SONS, Skinners' Hall, 9, Dowgate Hill, E.C.4. (CITY 1131 and CENTRAL 7748). [1787

SITUATIONS VACANT

QUANTITY SURVEYOR (Qualified) required for estimating, taking-off and billing, and generally to look after contracts. Starting salary not less than £800 p.a. In the first instance this will be a temporary position for not less than two years. — Apply A. Guinness, Son & Co. (Dublin) Limited, St. James's Gate, Dublin, giving date and details of experience, and present salary. [1752

ARCHITECTURAL ASSISTANTS of intermediate or final standard required for Birmingham Office handling multi-storey dwellings and rural housing. Salaries in accordance with qualifications and experience. — Apply in writing or in person to J. Brian Cooper, F.R.I.B.A., 177 Corporation Street, Birmingham, 4. [1791

SITUATIONS WANTED

F.R.I.B.A. (46) seeks responsible position Oxon/Berks area or London. Wide experience Industrial, Domestic, Job Management, Quantities.—Box No. 7905, c/o A. & B. N. [1786

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DANISH BUSINESS MAN, 35 years, fully conversant with wholesale business, seeks agency for Denmark, eventually Scandinavia. Inside sanitary, pipe, central-heating line, technical fittings, machine and tools, etc., for plumber and pipefitter, and all kinds of metal.—Box No. 7970, c/o A. & B.N. [1804

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GRADUATE Designer-Draughtsmen prepare Heating, Ventilating and Electrical schemes and specifications to requirements of Architects and Consultants.—Box 7629, c/o A. & B. N. [1741

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P. HANNON, Plumbing & Heating, 90 Albert Street, London, N.W.1. GUL. 7422. [1713

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ALL hardwood mouldings, plain and embossed, embossed ornaments and dowels; send for catalogue and to-day's lowest trade prices.—Dareve's Moulding Mills, Ltd., 60 Pownall Road, Dalston, E.8. Clissold 1543/4. [0142

JOINTLESS composition flooring in attractive colour range—quotations free.—Full particulars from the Liotex Asbestos Flooring Co., Ltd., 3, Corbetts Passage, London, S.E.16 (Dept. A). Bermondsey 4341-2-3. [0622

RECONDITIONED ex-Army Huts & Manufactured Buildings. Timber, Asbestos, Nissen Type, Hall Type, etc. All sizes and prices. Write, call or telephone. Universal Supplies (Belvedere), Ltd., Crabtree Manorway, Belvedere, Kent. Tel.: Erith 2948. [0005

HARDCORE, Walling Stone and Pitching delivered or collected from quarries at Fish Hill, near Broadway, Worcs. and Hornsleasow, near Bourton-on-the-Hill, Glos.—Apply to Baillie, Brind & Co., Ltd., Prudential Chambers, Banbury, Oxon. [0082

LAND FOR SALE

LAND FOR INDUSTRIAL DEVELOPMENT, ASHFORD, KENT. 31 acres. As a whole or in Lots. Long road and rail frontages. All services av. Planning permission obtained. — Joint Sole Agents: Messrs. GEERING & COLYER, Ashford, Kent. (Tel. Ashford 25); and Messrs. HENRY BUTCHER & CO., 71, Chancery Lane, LONDON, W.C.2. (Tel. Holborn 8411). [1802

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ARCHITECTS' Indemnity Insurance effected. — Please write for Proposal Form to E. J. SAXBY, Incorporated Insurance Broker, 37a, Carfax, Horsham, Sussex. Tel 990. [1692

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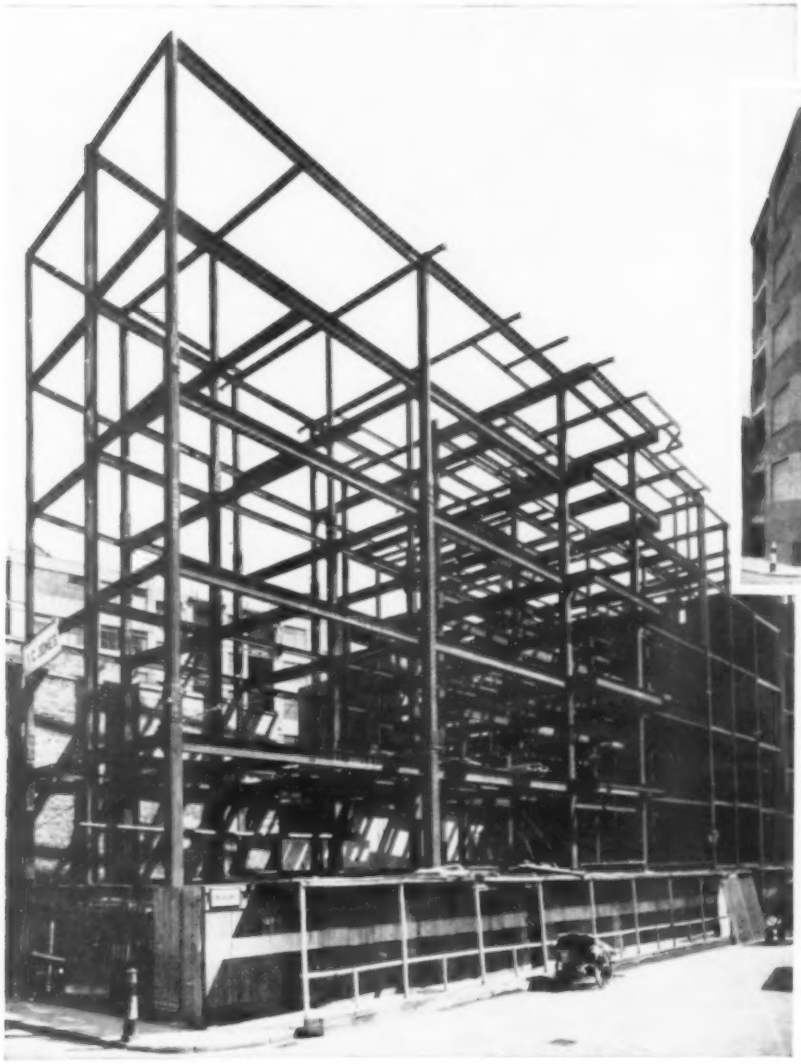

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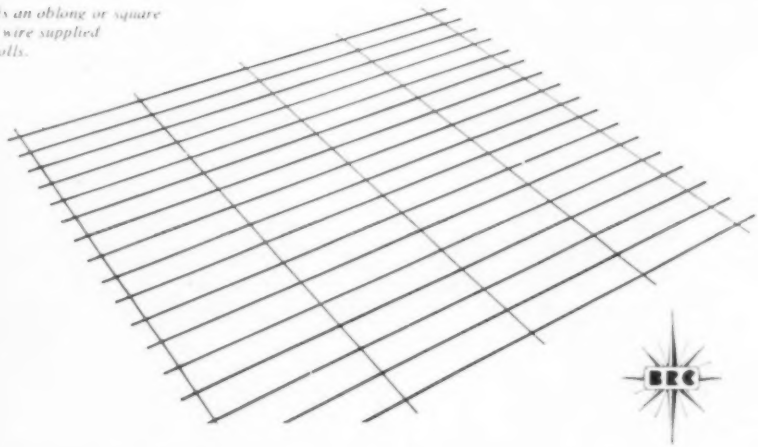

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